

CURRICULUM VITAE

ANTHONY FAIOLA, PH.D., M.F.A.

Professor and Head  
Department Biomedical and Health Information Sciences  
*College of Applied Health Sciences*

Professor  
Department of Computer Science  
*(Joint Appointment)*  
*College of Engineering*

UNIVERSITY OF ILLINOIS AT CHICAGO

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## DEMOGRAPHIC INFORMATION

### BUSINESS ADDRESS

Department of Biomedical and Health Information Sciences  
College of Applied Health Sciences  
The University of Illinois at Chicago (UIC)  
1919 W. Taylor Street, Rm. 235  
Chicago, IL 60612 USA

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### WEBSITES

#### *Faculty Sites*

<http://ahs.uic.edu/biomedical-health-information-sciences/directory/faiola-anthony/>  
<https://www.cs.uic.edu/k-teacher/anthony-faiola-phd/> (Joint-Appointment)

#### *Google Scholar & Google Faculty Site*

[https://scholar.google.com/citations?hl=en&user=msTpXlsAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=msTpXlsAAAAJ&view_op=list_works&sortby=pubdate)  
<https://sites.google.com/site/faiolaanthonyj/>

#### *ResearchGate*

[https://www.researchgate.net/profile/A\\_Faiola/publications](https://www.researchgate.net/profile/A_Faiola/publications)

#### *DBLP Computer Science Bibliography*

<http://dblp.uni-trier.de/search?q=faiola>

#### *PubMed*

<https://www.ncbi.nlm.nih.gov/pubmed?term=anthony+faiola&cmd=DetailsSearch>

#### *Patents*

[Hypoglycemia Wireless Sensor](#)  
[Medical Information Visualization Assistant](#)

#### *Press Releases*

[Hypoglycemia Wireless Sensor](#)  
[Medical Information Visualization Assistant](#)

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## EDUCATION

<b>Ph.D.</b>	Purdue University, West Lafayette, IN Communication: <i>Society, Media &amp; Technology (Socio-Cultural Psychology)</i>	††	2005
<b>M.A.</b>	The Ohio State University, Columbus, OH Industrial Design: <i>Interface Design / Human Factors</i>	††	1984
<b>M.F.A.</b>	The Ohio State University, Columbus, OH ( <i>Fine Arts</i> )	†	1979
<b>M.A.</b>	University of Albany, State University of New York, NY ( <i>Fine Arts</i> )	†	1977
<b>B.F.A.</b>	State University of New York at New Paltz, NY ( <i>Fine Arts</i> )		1975

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†—Summa Cum Laude    ††—Magna Cum Laude

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## PROFESSIONAL APPOINTMENTS

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### *Administrative Appointments*

2016—	Head	Department of Biomedical & Health Information Sciences College of Applied Health Sciences University of Illinois at Chicago (UIC)
2011—13	Director	Informatics Program, Undergraduate Education Indiana University—School of Informatics & Computing, IUPUI *
2008—13	Executive Associate Dean	Indiana University—School of Informatics & Computing, IUPUI
2007—09	Director	Media Arts and Science Program Indiana University, SoIC, IUPUI
2002—14	Founding Director	Human-Computer Interaction Programs Indiana University, School of Informatics & Computing, IUPUI

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### *Faculty Appointments*

2016—	Professor	Department of Biomedical & Health Information Sciences College of Applied Health Sciences, UIC
2016—	Professor	Department of Computer Science ( <i>Joint-Courtesy Appointment</i> ) College of Engineering, UIC
2014—16	Associate Professor	Department of Bio-Health Informatics ( <i>Joint Appointment</i> ) Indiana University, School of Informatics & Computing, IUPUI
2012	Affiliated Scientist	Regenstrief Institute, Indianapolis, IN ( <i>Sabbatical Leave</i> )
2003—16	Associate Professor	School of Engineering, Purdue University ( <i>Joint-Courtesy Appointment</i> ) Indiana University, School of Informatics & Computing, IUPUI
2001—16	Associate Professor	Department of Human-Centered Computing ( <i>Tenured 2006</i> ) Human-Computer Interaction Program Indiana University, School of Informatics & Computing, IUPUI
1998—01	Assistant Professor	Department of Computer Graphics Purdue University, Polytechnic Institute, West Lafayette, IN
1979—98	Directorships	Multiple Design and Administration Appointments ( <i>See Appendix A</i> )

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\* IUPUI – Indiana University Purdue University Indianapolis

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## SCHOLARSHIPS

- 2003 Fulbright Scholar: **Senior Specialist Program:** Moscow State University of the Printing Arts.  
Series: *Communication—eBook Technologies*. Moscow, Russia
- 2002 Fulbright Scholar: **Senior Specialist Program:** Moscow State University of the Printing Arts.  
Series: *Communication—Online Publishing Technologies*. Moscow, Russia
- 1999 Fulbright Scholar: **U.S. Scholar Program:** St. Petersburg State University of Information Technologies, Mechanics, and Optics, Series: *Communication—Media Usability*. St Petersburg, Russia
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## EDUCATION (*Extended Learning*)

- 2017 Institution: **Harvard University**, Division of Continuing Education, Cambridge, MA  
Program: **Design Thinking Workshop** (*Focused Interest: Healthcare Services*)
- 2017 Institution: **IIT Institute of Design**, Chicago, IL  
Program: **Design Thinking Workshop** (*Focused Interest: Healthcare Services*)
- 2010 Institution: **Assoc. for the Advancement of Medical Instrumentation / FDA**, Minneapolis, MN  
Program: **Human Factors for Medical Devices** (*Focus: Design, Usability, & FDA Policy*)
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## RECENT INVITED TALKS (*Keynotes and Panels*)

- May 2018 **Keynote Speaker** (*Forthcoming*)  
Keynote Title: The Rise of the Digital Health Information Society? Empowering People by Connecting Mobile Health to Healthy Lifestyle Management  
Conference: 3rd International Conference on “Digital Transformations & Global Society” and Internet and Modern Society  
Location: St. Petersburg State University of Information Technologies, Mechanics, and Optics, Saint Petersburg, Russia
- Feb. 2017 **Keynote Speaker**  
Keynote Title: Consumer Health Informatics: Empowering Patients with Noncommunicable Diseases through mHealth  
Conference: International Conference on Informatics, Health, and Technology (Sponsor: IEEE)  
Location: King Saud bin Abdulaziz University for Health Science, Riyadh, Saudi Arabia.
- Oct. 2016 **Panel Expert**  
Conference: The American Congress of Rehabilitation Medicine  
Panel: Mobile Health Information Technology and Chronic Disease Management  
Location: Chicago, IL
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## HEALTHCARE RESEARCH COLLABORATION (*Exploratory*)

- 2017— Institution: **Healthcare Service Design** (*Improvement Science*), College of Medicine, UIC  
Collaborator: **Jerry Krishnan, MD**, Assoc. Vice Chancellor for Population Health, Prof. of Medicine
- 2017— Institution: **Informatics Innovation Institute**, UI Health Systems & College of Medicine, UIC  
Collaborator: **Karl Kochendorfer, MD**, Vice Chancellor for Health Affairs, Assoc. Chief Med. Officer
- 2017— Institution: **Urology Innovation Research Group** (*Design/Bioengineering*), College of Medicine, UIC  
Collaborator: **Craig Niederberger, MD**, Dept. Head & Professor of Urology and Bioengineering
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## PROGRAM EXPANSION (*New Revenue Stream Initiatives*)

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|--|---------------|----------------|
| 1. <b>Health Informatics</b> —International (5 Countries) Online Markets | (Confirmed)   | Fall 2017      |
| 2. <b>Health Data Science</b> —MS Health Informatics Track               | (Confirmed)   | Sp. 2018       |
| 3. <b>Biomedical Interaction Science</b> —MS Health Informatics Track    | (In Progress) | Sp. 2019       |
| 4. <b>Biomedical Interaction Science</b> —New MS Program                 | (In Progress) | Fall 2019      |
| 5. <b>Undergraduate in Biomedical Visualization</b> —(BS Degree)         | (In Planning) | Fall 2019 / 20 |

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## SABBATICAL (*Leave*) LECTURE SERIES (*Activity Theory and Health Information Systems*)

2012	Institution:	<b>Umeå University</b> , Umeå, Sweden
	Host/Collaborator:	<b>Victor Kaptelinin</b> , Department of Informatics
2012	Institution:	<b>University of Oulu</b> , Oulu, Finland
	Host/Collaborator:	<b>Kari Kuuttii</b> , Department of Information Processing Science
2012	Institution:	<b>Moscow State University</b> , Moscow, Russia
	Host/Collaborators:	<b>Alexander Voiskounsky</b> , Department of Psychology <b>Anna Leonova</b> , Laboratory of Work Psychology

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## AWARDS & HONORS

2013	Dedicated Service Award— <i>as</i> Executive Associate Dean, Indiana University, SoIC
2004	Who's Who among America's Teachers, Nominated Honor
2003	IU Board of Trustees Excellence in Teaching Award, Indianapolis, IN
2001	University of New York Alumni Honor Roll, SUNY Albany, NY
1984	Printing Industry of America Award
1984	PRINT Magazine Annual Design Award, New York
1984	DESI Graphic Design Award, New York
1984	National Composition Association, New York
1983	Chicago Book Clinic, 35th Annual Design Award, Chicago
1983	Columbus Society of Communicating Arts, Columbus, OH
1983	DESI Graphic Design Award, New York
1983	Printing Industry of America Award
1983	PRINT Magazine Annual Design Award, New York
1983	Phi Beta Kappa Nominee: Ohio State University, Columbus, OH
1983	Teaching Associateship, Industrial Design Department, The Ohio State University
1979	Ford Foundation Grant, The Ohio State University, Columbus, OH

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## PROFESSIONAL ORGANIZATIONS (*Current & Past*)

2017—	American Society for Healthcare Engineering ( <i>American Hospital Association</i> )	ASHE
2017—	Society for Participatory Medicine	SPM
2016—	American Congress of Rehabilitation Medicine	ACRM
2014—	American Medical Informatics Association	AMIA
2006—2010	American Educational Research Association	AERA
2002—2005	Industrial Designers Society of America	IDSA
2001—2005	Usability Professionals Association	UPA
2001—2017	Association of Computing Machinery—Special Interest Group	ACM
1999—2010	Fulbright Association	Fellow

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## RESEARCH TEAM (*Current UIC: 2017-18*)

Maryam Zolnoori	Postdoc, Health Informatics, PhD, University of Wisconsin and NIH Fellow (2018)
Haleh Vatani	PhD Student, Biomedical and Health Informatics
Emma Chai	MS Student, Biomedical Visualization
Kate Greenhill	MS Student, Biomedical Visualization
Alexandria Dirico	BS Student, Neuroscience/Psychology (Honors College)

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## ADMINISTRATIVE OVERVIEW

2016—Present    **HEAD of DEPARTMENT**

**Department of Biomedical and Health Information Sciences (BHIS)**  
**College of Applied Health Sciences**  
**University of Illinois at Chicago**

Administrative oversight of all research, education and service efforts of tenured, tenure-track, clinical rank, and adjunct faculty. Administrative duties included fiscal oversight of a \$7M budget, covering the salary of 26 full-time faculty, 65 adjunct faculty, and 5 staff. Responsible for promoting synergies between the department's three graduate programs and one undergraduate program—a total of 1124 students (BS/MS/PhD). Research faculty managed \$5M+ in awarded grants over the last five years. Outward-facing management includes reporting to the dean's office of Applied Health Sciences, long-term planning, program growth/expansion, enrollment, graduation management, research, and budgetary projections.

**Reporting Lines to the Head are as follows:**

□ *Associate Head*

□ *Program Directors (Programs Enrollment: 1124 students)*

1 Director of Health Informatics (Online)	MS	505 students
2-Year Programs: Health Informatics & Info. Mgt.	Certif.	525 students
2 Director of Health Information Management	BS	91 students
3 Director of PhD Biomedical & Health Informatics	PhD	3 students
4 Director of Biomedical Visualization	MS	60 students

□ *Director of Graduate Programs*

□ *Financial Officer*

**Department Mission:** To advance the quality and efficiency of healthcare through improved generation, management, and communication of health information / data—including the effective use of biomedical/health informatics data analytics for scientific inquiry and decision-support—motivated by efforts to improve public health, particularly through the use of health information technology.

**Recent/On-going Accomplishments:**

- Co-Led the development of our soon-released Health Data Science Track, one of the first in the US; as part of our HI sub-disciplines.
- Led the development of a newly formed track, Biomedical Interaction Science, a sub-discipline that integrates Health Informatics and Interaction Science.
- Initiated and led the licensing negotiations for our Health Information Management program to the King Saud Bin Abdulaziz University for Health Sciences, College of Public Health & Health Informatics, Riyadh, Saudi Arabia.
- Led, in coordination with the department's search committee, the hire of three high quality research-centered faculty.
- Led the expansion of the Health Informatics program abroad into five countries, in a coordinated effort with Pearson Education International marketing group.
- Co-Led with the UI Health Vice Chancellor for Health Affairs an initiative to form the Institute for Informatics Innovation, a center composed of faculty / researchers from the UIC medical campus and the medical/health academic colleges.
- Co-Collaborated with the Associate Vice Chancellor for Population Health Sciences and Professor of Medicine and Public Health, on a campuswide initiative focused on designing clinical experiences that meet the need of patients and their families—through the use of design for health problem solving.

## 2008—2013 EXECUTIVE ASSOCIATE DEAN (EAD)

### **Indiana University—School of Informatics and Computing**

*Indiana University—Purdue University—Indianapolis*

As EAD and Chief Operating Officer for the SoIC Indianapolis campus, reported to the Provost and Dean of Faculty (IUPUI) and the Dean of SoIC (Bloomington). Work included the day-to-day oversight of all school-wide operations, which consisted of over 900 undergraduate and graduate students (BS/MS/PhD), generating 8000+ credit hours per year. Administrative duties included fiscal oversight of a \$9.6M budget, six programs: Human-Computer Interaction, Health Informatics, Bioinformatics, Media Arts and Science, Health Information Administration, and Informatics. My administrative duties also included oversight of academic and faculty affairs, SoIC's educational and research mission, as well as supervision of three associate deans, six program directors, and seven staff directors, with their 15 staff. The School was composed of 18 tenured and tenure-track faculty and 19 full-time clinical rank lectures and research associates. Outward-facing management included communication and reporting to campus administration regarding school mission, long-term planning, progress in the areas of enrollment and graduation management, research, and budgetary projections. *(Per request, a detailed list of accomplishments can be provided.)*

#### **Reporting Lines to EAD were as follows:**

□ ***Associate/Assistant Deans Reporting to the EAD:***

Associate Dean for Research and Graduate Programs  
Associate Dean of Administration and Planning  
Associate Dean for Faculty Affairs  
Assistant Dean for Student Affairs

□ ***Program Directors Reporting to the EAD:***

Director of Health Informatics	Degrees: Ph.D. & MS
Director of Bioinformatics	Degrees: Ph.D. & MS
Director of HCI	Degrees: Ph.D., MS, Grad & UG Certif.
Director of Media Arts and Science	Degrees: MS & BS
Director of Health Information Admin.	Degrees: BS & UG Certificate
Director of Informatics	Degrees: BS & UG Certificate

□ ***Administrative Leadership Reporting to the EAD:***

Director of Communications and Marketing  
Director of Fiscal and Administrative Affairs  
Director of Technology and Space Management  
Director of Career Services  
Director of Human Resources  
Manager of Advising  
Manager of Events and Recruitment Coordination

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*See Appendix A for a list of EAD administrative accomplishments, covering these topics:*

1. Student Enrollment
2. Student Services Management
3. Student Outreach
4. Education / Learning and Research Labs
5. International Education
6. Research
7. Fundraising
8. Community Partnerships
9. Campus Partnerships
10. Diversity / Inclusion



## PROGRAM DIRECTORSHIPS

### 2003—2014    **FOUNDING DIRECTOR**

#### **Human–Computer Interaction (HCI)**

Indiana University—School of Informatics and Computing, IUPUI

As Founding Director of the Human-Computer Interaction Program, oversaw all program development, faculty and student affairs, enrollment and retention, and the general management of the program.

### 2007—2009    **DIRECTOR**

#### **Media Arts and Science (MAS)**

Indiana University—School of Informatics and Computing, IUPUI

Held the position of Director of Media Arts and Science (MAS), with programmatic and curricula oversight.

### **Accomplishments as HCI Founding Director**

- ❑ Led the development and inauguration of the:
  1. HCI MS Program— Fall 2002
  2. HCI Grad Certif. Program— Spring 2008
  3. HCI Ph.D. Track, Informatics— Fall 2008
  4. HCI Undergrad Certif. Program— Fall 2010  
*UG Certificate includes five new or revised undergraduate HCI courses, specifically designed for students outside the School.*
- ❑ Led the design and development of all core HCI courses: Including HCI 1, HCI 2, Usability and Evaluative Methods in HCI, the Psychology of HCI, and Prototyping of Interactive Products. As Director, acknowledged the growing need for students to acquire a comprehensive understanding of HCI theory and practice.
- ❑ Led the program (by 2012) up to a student enrollment of 50 MS and 10 Ph.D. students.
- ❑ Led the creation of the first HCI Graduate Program Curriculum document that included new specifications for the HCI MS thesis and project guidelines.
- ❑ Led the creation of the first Ph.D. Program Curriculum document.
- ❑ Led the search and hire of key HCI faculty, with PhDs or Post-Docs from Penn State, Cambridge University, Cornell University, and University Lugano, Switzerland.
- ❑ Led the design and advertising of key promotional materials for the HCI program. During the 2007-2008 school year; marketing outcomes included the single largest increase in enrollment since the program's inception.

### **Accomplishments as MAS Director**

- ❑ Led the faculty to conceive of a new vision and direction for the MAS program. Based on this exploratory work (Summer 2007), groundwork was laid for new undergraduate and graduate programs.
- ❑ Led a major revision of the MAS Graduate Program curriculum; including a new arrangement of the courses based on the new vision, increased program rigor and the addition of a thesis or project, rather than a capstone.
- ❑ Led the development of the MAS Certificate Program based on the revised MAS Graduate program.
- ❑ Led a major revision of the MAS undergraduate curriculum; composed of five new program clusters.
- ❑ Established an Assistant Director position for the MAS program (Fall 2007).
- ❑ Conceived and directed the revision of the MAS Capstone process (Spring 2008), transforming it from a week-long activity to a four-hour one-evening event. The outcome was an event with far greater impact as a solicitation to potential employers and recruitment for new students.
- ❑ Led the creation of the document for the new MAS Graduate Program Curriculum that included new specifications for the MAS MS thesis and project guidelines.
- ❑ Established quarterly meetings with the MAS Advisory Board (20+ members) to address curriculum, program support, and funding (Fall 2007).
- ❑ Elected a MAS Advisory Board Chair person to take chief lead in the direction of the board.

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## RESEARCH OVERVIEW

### Digital/Mobile Health Research (*Consumer Health Informatics*)

1

#### **HYPOalert:** (*Current*)

##### **Canine-Inspired Smart Sensor for Detecting Hypoglycemia from Human Breath**

Existing hypoglycemia (HYPO) detection relies on analyzing blood glucose levels by continuous monitoring, saliva, urine, and skin prick—all of which have limited accuracy. Diabetes alert dogs (DADs) are trained to detect HYPO by smelling volatile organic compounds (VOCs) in breath. Patients with DADs demonstrated more accurate/faster detection than existing detection methods.

- **Research:** An electronic nano-sensor that mimics canine ability to detect HYPO from VOCs in breath—that outputs data (via Bluetooth) to a mHealth smartphone app. Using VOC sensor-tracking, patients receive numeric and data visualizations, along with HYPO alerts. Team work consists of consumer-centered design, development, and testing of a mobile app for pushed data from nano-sensor.
- **Funding:** This research is currently funded with a NSF Smart-&-Connected Health grant—\$790,000. Grant title: *Canine-Inspired Smart Sensor for Detecting Hypoglycemia from Human Breath*. As co-PI—I contribute to the socio-technical/HCI and information visualization expertise for the project.

2

#### **FAMcare:** (*Current*)

##### **A Critical Care Room-to-Mobile Mobile System— For Family-Centered Collaboration**

Family members of patients have not been meaningfully engaged in the care process, putting them at risk for experiencing fear, depression, anxiety/stress, and family conflict. How to increase information sharing/transparency, decision-making, access to mental wellness counselors, and the distribution of patient care activities, without placing added cognitive burden on families or clinicians.

- **Research:** A family-centered mobile health solution that provides families remote access to ICU/Ward (real-time) patient information, video, counselor support, and messaging with clinicians.
- **Funding:** As PI, an AHRQ submission was funded. Funding is currently being sought. The Title: *FAMcare for Room-to-Mobile Family-Centered Collaboration*.

3

#### **MIVA:**

##### **Medical Information Visualization Assistant—A Mobile Dashboards for Clinical Workflow**

Advances in ICU bedside displays and EMR interfaces have not fully addressed the challenges of cognitive load and the manipulation of real-time clinical data. Time constraints on decision-making added to complex numeric/textual data analysis leads to excessive cognitive load and diagnostic error—impacting quality of care and safety.

- **Research:** Design a mobile app that allows for spatially and temporally organized patient EMR data to support clinical diagnostics, while reducing cognitive load and the chance of diagnostic error.
- **Funding:** This research is funded with (*four consecutively awarded*) proof-of-concept internal grants from the Indiana University Solution Center—Total: \$73,600. Past joint grant submissions included: PI Faiola and co-PIs from: Mayo Clinic, Indiana University School of Medicine and the Regenstrief Institute.

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### Mental Health Research (*Current*)

#### **Flow Experience and the Effects of Smartphone and Social Media Use on Mood, Anxiety, Depression, Consciousness, and Psychosocial Wellness**

The use of smartphone, particularly social media, is challenging our prior assumptions about technology's role in shaping mental health and interpersonal relationships. Today, smartphones have become indistinguishably interwoven with the development of human consciousness. We argue that today's mediational experiences with smartphones suggests a profound obsession with technology. With the use of smartphones, researchers have documented an unprecedented increase in harmful mental health adversities. Recent findings from two studies (by Dr. Faiola) significantly demonstrate that the use of smartphones and social media is negatively impacting psychosocial behavior and mental wellness—related to anxiety, depression, mood, as well as the ability to build long-lasting personal relationships. (*Two papers are forthcoming.*)

Refereed Journals—*In Review*

1. **Faiola, A.,** Srinivas, P., & Duffecy, J. (*In Review*). Flow experience and the effects of smartphone use on mood, consciousness, and psychosocial wellness, *Journal of Mental Health*.
2. **Faiola, A.,** Papautsky, E., & Isola, M. (*In Review*) Empowering the aging with mobile health: A mHealth Framework for supporting sustainable baby-boomer lifestyle behavior, *American Journal of Geriatric Psychiatry*.
3. Zolnoori, M., Fung, K., Patrick, T., Fontelo, P., Kharrazi, H., **Faiola, A.,** et al. (*In Review*). A systematic approach for developing a corpus of adverse drug events associated with psychiatric medications, *Journal of Biomedical Informatics*.

Refereed Journals—*In Manuscript*

1. Hosseini, M, Jones, J, **Faiola, A,** Wu, H, Vreeman, D, & Dixon, BE. (*In Manuscript*). Impact of reconciled medical information on providers' perceived mental workload, *Slated Journal: Journal of the American Medical Informatics*.
2. **Faiola, A.** (*In Manuscript*) The effects of excessive social media use on depression, anxiety, and life satisfaction, *Slated Journal: Health Psychology*.
3. **Faiola, A.** & Srinivas, P. (*In Manuscript*). Cultural cognitive health communication: Designing for the needs of multicultural users of online health information, *Slated Journal: Journal of Health Communication*.
4. **Faiola, A.,** Srinivas, P., and Kockendorfer, K. (*In Manuscript*). Family cognition: Applying cognitive informatics in the delivery of family-centered care, *Slated Journal: Journal of Biomedical Informatics*.
5. Zolnoori, M., Patrick, T. B., **Faiola, A.,** Stoffel, V., Fontelo P., and Fung, KW. (*In Manuscript*). Underlying factors affecting on attitude and adherence toward antidepressants: a literature review, *Slated Journal: Journal of Social Psychiatry and Psychiatric Epidemiology*.
6. Zolnoori, M., Fung, KW., Fontelo, P., Patrick, T. B., and **Faiola, A.,** Wu YS. S. (*In Manuscript*). Leveraging social media (consumer health posts) to identify underlying factors associated with negative attitudes towards antidepressants, *Slated Journal: Journal of the American Medical Informatics Association*. †
7. Zolnoori, M., Patrick, T. B., Fung, KW., Fontelo P., **Faiola, A.,** Wu YS. S., Xu, K., Zhu, J., Eldredge, C. E. (*In Manuscript*) Development of a corpus to support automatic identification of patient reported drug-pharmacological effects from consumer health posts. *Slated Journal: Journal of Biomedical Informatics*. †
8. Newlon, C. & **Faiola, A.** (*In Manuscript*). Complex information sharing of mega-collaboration: A new tool that supports the think-let-interaction model, *Slated Journal: Group Decision and Negotiation*. †

1. Srinivas, P., **Faiola, A.**, & Khan, B. (Accepted). Using visual and tactile notifications to better manage interruptions in the ICU. *Proceedings from ACM - CSCW, Computer-Supported Cooperative Work and Social Computing, New York, November, 2018.*
2. Zolnoori, M., Patrick, T. B., Fung, K. W., Fontelo, P., **Faiola, A.**, Shuan, Y., Wu, S., Xu, K., Zhu, J., Eldredge, C. E. (2017). A Systematic Approach for Developing a Corpus of Adverse Drug Events for Psychiatric Medications, *Workshop: American Medical Informatics Association, Annual Symposium, Washington, DC., November, 2017.* †
3. Papautsky, E.L., Abdulbaseer, U., & **Faiola, A.** (2017). What is the role of patient families? An exploratory study in a medical intensive care unit. *Proceedings of Human Factors & Ergonomics Society 2017, International Annual Meeting, Austin, TX, Oct 2017.*
4. Hosseini, M, Jones, J, **Faiola, A.**, Wu, H, Vreeman, D, & Dixon, BE. (2017). Reconciling disparate information in continuity of care documents: Piloting a system to consolidate structured clinical documents. *Journal of the Biomedical Informatics, 74,* 123-129. †
5. **Faiola, A.** & Holden, R. (2017) Consumer Health Informatics: Empowering Healthy-Lifestyle-Seekers through mHealth, *Journal of Progress in Cardiovascular Diseases, Special Edition: Conceptualizing the Healthy Lifestyle Healthcare System, 59(5),* 479-486.
6. Srinivas, P., Reddy, M. C., & **Faiola, A.** (2016). Better managing technology-mediated interruptions in the ICU: Examining the role of patient information for improving text message notifications. *In the Proceedings of American Medical Informatics Association, Annual Symposium, November, 2017.* † (Distinguished Paper Nomination)
7. **Faiola, A.**, Papautsky, E. L., & Joo, M. (2016). Supporting Patient Healing through ICUsmartCARE: Technologies that Enable Increased Family Presence, Communication, and Information Flow, *In the Proceedings of the 2016 IEEE International Conference on Healthcare Informatics 2016 (ICHI) in Chicago, IEEE Computer Society.*
8. Tunnell, H. D., Pfaff, M. & **Faiola, A.** (2016). Secondary Users and the Personal mHealth Record: Designing Tools to Improve Collaboration Between Patients and Providers, *Extended Abstract: 2016 IEEE International Conference on Healthcare Informatics 2016 (ICHI) in Chicago, IEEE Computer Society.* †
9. Srinivas, P., **Faiola, A.**, & Mark, G. (2016). Designing guidelines for mobile health technology: Tools for managing notification interruptions in the ICU, *In the Proceedings of ACM CHI Notes, San Jose, CA, USA, May 7-12.* New York, NY: Association for Computing Machinery Press, April 2016. †
10. **Faiola, A.** Srinivas, P. & Duke, J. (2015). Supporting clinical cognition: a human-centered approach to a novel ICU information visualization dashboard, *American Medical Informatics Association, Annual Symposium, November 14, 2015.* †
11. **Faiola, A.**, Srinivas, P. & Doebbeling, B. (2015) A ubiquitous situation-aware data visualization dashboard to reduce ICU clinician cognitive load. *Proceedings of the IEEE HealthCom 2015, Boston, MA, April 15, 2015.* †
12. Srinivas, P., **Faiola, A.**, & Khan, B. (2015). Supporting information management in ICU rounding a novel mobile system for managing patient-centered notes and action-items, *Proceedings of the IEEE HealthCom 2015, Boston, MA, April 15, 2015.* †

13. Tunnell, H., **Faiola, A.**, & Haggstrom, D. (2015). Clinicians as secondary users of patient-centered, mobile technology in complex healthcare settings, *Proceedings of the IEEE HealthCom 2015, Boston, MA, April 15, 2015*. †
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26. **Faiola, A., Newlon, C., Pfaff, M., & Smysolva, O.** (2013) Correlating the effects of flow and telepresence in virtual worlds: Enhancing our understanding of user behavior in game-based learning. *Computers in Human Behavior, 29, 1113-1121. †*
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31. Bolchini, D. & **Faiola, A.** (2011). It's Mobile Before It's Real: Extreme Prototyping with "Paper-in-Screen, In G. Salvendy and J. Jacko (Ed.), *Proceedings of the 14th International Conference on Human-Computer Interaction*. Orlando, FL, 2011, Vol. 6770 / 2011, pp. 548-556.
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41. Edgardo, L, Bolchini, D. & **Faiola, A.** (2009). Evaluating usability-supporting architectural patterns: Towards bridging the communication gap between software engineers and usability professionals. In G. Salvendy and J. Jacko (Ed.), *Proceedings of the 13th International Conference on Human-Computer Interaction*. San Diego, CA, Vol. 5610, pp. 320-328. †
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TerraSearch+. In G. Salvendy and J. Jacko (Ed.), *Human-Computer Interaction: Ergonomics and User Interfaces, Theory and Practice, Volume 4, Theories Models and Processes in HCI. Proceedings of the 11th International Conference on Human-Computer Interaction*. Las Vegas: Nevada.

60. Faiola, A. (2005). Managing design knowledge: A new pedagogical framework for HCI. In G. Salvendy and J. Jacko (Ed.), *Human-Computer Interaction - Ergonomics and User Interfaces, Theory and Practice, Volume 5, Emergent Application Domains in HCI, Proceedings of the 11th International Conference on Human-Computer Interaction*. Las Vegas: Nevada. (Springer Publishing).
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66. Faiola, A. (2002). Producing the hybrid new media specialist: Two prominent academic programs in graphic communication address the needs of an evolving industry. *Proceedings of Graphica 2001, International Conference on Graphics Engineering for Arts and Design*, San Paulo Brazil, 98-108.
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72. Faiola, A. (2000). Cross-cultural landscapes of visual intelligence: An investigation of visualization problem-solving across cultural boundaries. *Selected Papers of the International Visual Literacy Association Conference, IVLA2000*, 113-122.
73. Faiola, A. (1999). Development of a visualization analysis manager: A database system for tracing visual intelligence. *Proceedings of the Jubilee Conference: Mathematical Models in Social Problems, Economy, and Technical Problems*. Sochi, Russia, 8, 155-157.
74. Faiola, A. (1999). A comparison study of Russian – U.S. visualization problem-solving. *Proceedings of the Jubilee Conference: Mathematical Models in Social Problems and Technical Problems*. Sochi, Russia, 8, 158-160.
75. Faiola, A. (1999). Re-Designing graphic arts education: A closer look at strategies for a New Millennium of Digital Communication and Globalization. *The Journal of Technology Studies*. 25(2), 47-50.
76. Faiola, A. (1989). Improving courseware development efficiency: The effects of authoring systems on team roles and communication. *Educational Technology*. 29(8), 16-19.
77. Faiola, A. (1989). Lean-and-mean team interactive video design course development. *Training and Development Journal*. 43(3), 59-64.
78. DeBloois, M. & **Faiola, T.** (1988). Designing a visual factors-based screen display interface: The new role of the graphic technologist. *Educational Technology*, 28(8), 12-21. (Also see: In Educational Technology Publications (Ed.), *Interactive Video: The Educational Technology Anthology Series*, 1, 69-79.)

#### Refereed Conference Posters and Research Demos [16 Total]

1. Greenhill, K., **Faiola, A.** Lebowiz, L. and Bond, S. (2017). Creating Common Ground: A Medical Visualization Tool to Aid Physician / Family Communication in a Medical Intensive Care Unit Setting, *Applied Health Sciences Research Day*, November 1, 2017, University of Illinois at Chicago. †
2. Boyd AD, Abraham J, Kitsiou S, Papautsky E, **Faiola A.** (2017). Health Informatics Research Projects, Medical Technology Enterprise Consortium (MTEC), Poster, 2<sup>nd</sup> Annual Conference, March 30<sup>th</sup>, 2017. San Antonio, TX.
3. Tunnell, H. D., **Faiola, A.** and Bolchini, D. (2017). Guidelines to Incorporate a Clinician User Experience (UX) into the Design of Patient-Operated mHealth. *CHI 2017 Interactivity Research Demo and Poster, ACM CHI Conference, Denver, CO*, April. 2017. †
4. Zolnoori, M. Patrick, T. B., Conways, M., **Faiola, A.**, and Luos, J. (2016) Evaluating Acceptability and Efficacy of Antidepressant Medications using Patients Comments in Social Media. *Poster: American Medical Informatics Association, Annual Symposium, November, 2016*. †
5. Tunnell, H. D., **Faiola, A.** and Pfaff, M. (2016). Secondary Users and the Personal mHealth Record: Designing Tools to Improve Collaboration Between Patients and Providers, Poster: 2016 IEEE International Conference on Healthcare Informatics 2016 (ICHI) in Chicago, IEEE Computer Society. †

6. Putka, J., Cavalcanti, L., Ahgharian, N., and **Faiola, A.** (2016) Reducing Cognitive Load of Unmanned Aerial Vehicle Soldier-Operators: A Novel Weapon-UAV Control Design, *IUPUI Research Day Poster Session, April 8.* †
7. Srinivas, P, Cavalcanti, L., and **Faiola, A.** (2016) The Impact of Excessive Smartphone Usage: A Study on Flow and the Psychosocial Wellness of Students, *IUPUI Research Day Poster Session, April 8.* †
8. Ansah-Koi, K., Srinivas, P., Strzeszkowski, D., Gross, M., and **Faiola, A.** (2016) Building Healthy Social Media for All: Investigating How Different Cultures Seek and Process Health Information, *IUPUI Research Day Poster Session, April 8.* †
9. Srinivas, P. and **Faiola, A.** (2015). Improving patient safety: Integrating data visualization and communication into ICU workflow to reduce cognitive load. *Proceedings from Human Factors and Ergonomics in Health Care (Improving the Outcomes), Poster Presentation, April 26, 2015, Baltimore, MD.* †
10. Srinivas, P., and **Faiola, A.** (2014). Modeling daily rounds to support efficient task management in ICU workflow, *WISH-2014 (Workshop on Interactive Systems in Healthcare), Washington, DC, in conjunction with the American Medical Informatics Association (AMIA) Annual Symposium, 11/15/2014.* †
11. Boston-Clay, C., Jones, J., **Faiola, A.**, Dixon, B. and Pfaff, M., (2014). AMIA 2014, Assessing Health Information Technology Acceptance: Developing a Human Computer Interaction Activity-Centered Acceptance Framework, *Dissertation Poster, American Medical Informatics Association (AMIA) Annual Symposium, Washington, DC, November 15-19, 2014.* †
12. **Faiola, A.**, and Srinivas, P. (2014). Extreme mediation: observing mental and physical health in everyday life. Poster, *ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct Publication, Sept. 2014.* †
13. Srinivas, P., Karaham, Y., Chartash, D., Doebbeling, B., and **Faiola, A.** (2014). VizCom: A Novel Workflow Model for ICU Clinical Decision Support. In *ACM CHI '14, Poster Session, May 1, Toronto, Canada.* New York, NY: Association for Computing Machinery Press. †
14. **Faiola, A.**, Srinivas, P., Karanam, Y. and Kovel, O. (2014). Reducing Diagnostic Error in the ICU: A Novel Approach to Clinical Workflow—Visualization-Communication Integration, *IUPUI Research Day Poster Session, April 11.* †
15. Finch, R.J., Srinivas, P., and Karanam, Y., Koval, O., **Faiola, A.** (2014). Augmenting Consciousness through Invasive Technologies: How Do Cochlear Implant Patients Engage Activity in the World? *IUPUI Research Day Poster Session, April 11.* †
16. Srinivas, P. and **Faiola, A.** (2014). Smartphone Dependency and Consciousness: Observing Flow in Everyday Life, *IUPUI Research Day Poster Session, April 11.* †
17. Karaham, Y., **Faiola, A.**, and Chartash (5/25/2013) MIVA: Decision Support, *Poster Session. World Usability Day, IUPUI, Indianapolis, IN.* †
18. Stupiansky, N., Cummings, T., **Faiola, A.**, Defazio, J. and Orr, D. P. (2011). The Effects of a Computer-Based Driving Game on Hypoglycemia Education among Adolescents with Type-1 Diabetes, *Abstract/Poster for the Society for Adolescent Health and Medicine, Poster Session, 2011 Annual Conference, Seattle, Washington, March 29-April 1.*

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## SPECIAL PUBLICATIONS

### Invited Book Chapters and Books [6]

1. Bolchini, D., and **Faiola, A.** (2013). Usability assessment. In Dubitzky, W., Wolkenhauer, O., Yokota, H., and Cho, K.H. (Eds.). *Encyclopedia of Systems Biology*. New York: Springer Science+Business Media, pp. 2328-2329.
2. **Faiola, A.** and Kharrazi, H. (2010). Diabetes education and serious gaming: Teaching adolescents to cope with diabetes. In B. M. Hayes and W. Aspray (Eds.), *Health Informatics: A Patient-Centered Approach to Diabetes*. Cambridge, MA: MIT Press, pp. 151-178.
3. **Faiola, A.** and Matei, S. (2007). Cultural cognitive style and the Web: Toward a theory and practice of web design for international users. In K. St. Amant (Ed.), *Linguistic and Cultural Online Communication Issues in the Global Age*. Hershey, PA: Idea Group Published, pp. 143-159.
4. Faiola, A. (2005). Toward an HCI theory of cultural cognition. In C. Ghaoui (Ed.), *Encyclopedia of Human-Computer Interaction*. Hershey, PA: Idea Group Published, pp. 609-614.
5. Faiola, A. (2003). *Typography for print and the Web: Web usability tools and methods*. Saint Petersburg, Russia: BHV Publishing GmbH.
6. Faiola, A. (2000). *Typography primer*, Sewickley, PA: Graphic Arts Technical Foundation Press.

### Non-Refereed Papers, Reports, and Interactive Programs [10]

1. **Faiola, A.**, Srinivas, P., Finch, R. and Zhengxiao, W. (2015). Symbiont Consciousness: Sociocultural Embodied Augmentation of Humanity. *Philosophical Research Online*. <http://philpapers.org/profile/60147>
2. Faiola, A. (2004). Advancing the design of more useable technologies: Human-computer interaction at IUPUI, *Informatics*, 2(2), 14-15.
3. Faiola, A. (2000). Culture and visual intelligence: A cross-cultural comparison of American and Russian students in visualization processes. *International Association for Cross-Cultural Psychology Bulletin*.
4. Faiola, A. (1998). *A Proposal for the collaboration of education & industry: A joint venture in digital technologies R&D for the graphic communications industry*. Unpublished report. Purdue University, West Lafayette, Indiana.
5. Faiola, A. (1998). *Proposal for a new curriculum option: digital imaging & prepress management*. Unpublished report. Purdue University, West Lafayette, Indiana.
6. Faiola, A. (1989). Enhancing the skills of the graphic specialist for CBT development. *Instruction Delivery Systems*. 12(5), 12-14.
7. Faiola, A. (1988). Principles and Guidelines for a Screen Display Interface. *VideoDisc Monitor*. 8(2), 27-29.
8. Faiola, A. (1986). *Oil exploration*. The Center of Science and Industry. Columbus, Ohio.
9. **Faiola, A.**, & DeBloois, M. (1986). *Power plant pressurization procedures*. American Electric Power Company. Columbus, Ohio.

10. **Faiola, A., & DeBloois, M.** (1986). *Hotel procedures: Pickett suite hotels training*. Columbus, Ohio.

#### Educational Books, Workbooks, and Interactive Learning Systems [10]

1. **Faiola, A.** and Johnson, C. (Ed). (2004). *Psychology of human-computer interaction*. (Course Workbook) Indianapolis: IUPUI Publishing Services.
2. **Faiola, A.** and Larew, M. (Ed). (2004). *Human-computer interaction: Advanced concepts*. (Course Workbook) Indianapolis: IUPUI Publishing Services.
3. Faiola, A. (2004). *Information Visualization: The mountain-view project*. *Informatics*, 2(2), 16.
4. Faiola, A. (Ed). (2003). *Human-computer interaction: Basic concepts for I300* (Course Workbook) Indianapolis: IUPUI Publishing Services.
5. Faiola, A. (Ed). (2002). *New media basics: Understanding message design theory in a post-information society*. New York: John Wiley and Sons, Inc., Custom Services.
6. Faiola, A. (Ed). (2001). *Human-computer interaction: An overview of theories for user interface design and usability*. New York: John Wiley and Sons, Inc., Custom Services.
7. Faiola, A. (1986). *Oil exploration*. The Center of Science and Industry, Computer-Based Educational System. Columbus, OH.
8. **Faiola, A.** and DeBloois, M. (1986). *Power plant pressurization procedures*, Computer-Based Educational System. American Electric Power Company. Columbus, OH.
9. Faiola, A. (1986). *Hotel procedures: Pickett suite hotels training system*. Computer-Based Educational System. Columbus, OH.
10. Faiola, A. (1984). *Computer-aided instruction support: Agronomy 290*. Computer-Based Educational System. The Ohio State University Campus Network. School of Agriculture, Columbus, OH.

#### Master's Theses and Doctoral Dissertation

1. Faiola, A. (2005). *Cross-cultural cognition and online information design: Identifying cognitive styles among web designers of diverse national origin*. Ann Arbor, MI: UMI. <http://docs.lib.purdue.edu/dissertations/AAI3191458/>
2. Faiola, A. (1984). *A computer-assisted instruction overview and prototype*. Unpublished master's thesis, The Ohio State University, Columbus, OH.
3. Faiola, A. (1979). *The transient object: A look at contemporary thinking and issues as applied to my recent artwork*. Master's Abstracts International, 65 1. (University Microfilms No. Thesis1979mfaf162).

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## PRESENTATIONS

[First Name = Primary Presenter]

### Refereed Oral Presentations and Talks [54 Total]

(**International in Bold.**)

1. **Faiola, A.**, Papautsky, E. L., Greenhill, K. (*Accepted*) eMental health for family members of ICU patients: Findings that support a mobile family-centered approach to wellness, *7<sup>th</sup> Annual European Conference on Mental Health, Berlin, Germany*, October 5-7, 2017.
2. **Faiola, A.** and Srinivas, P. (*Accepted*). Excessive smartphone use and mental health: The impact of extreme mediation on psychosocial wellness, *17<sup>th</sup> World Congress of Psychiatry (World Psychiatric Assoc.), Berlin, Germany*, October 8-12, 2017.
3. Boyd AD, Abraham J, Kitsiou S, Papautsky E, **Faiola A.** (2017). Health Informatics Research Projects, Medical Technology Enterprise Consortium (MTEC), Presentation, *2<sup>nd</sup> Annual Conference*, March 30<sup>th</sup>, 2017. San Antonio, TX.
4. **Faiola, A.**, Papautsky, E. L., and Joo, M. (10/12/2016). Supporting Patient Healing through ICUsmartCARE: Technologies that Enable Increased Family Presence, Communication, and Information Flow, *2016 IEEE International Conference on Healthcare Informatics 2016 (ICHI) in Chicago, IEEE Computer Society*.
5. **Faiola, A.** Srinivas, P. and Duke, J. (11/18/2015). Supporting clinical cognition: a human-centered approach to a novel ICU information visualization dashboard, Presented at: *American Medical Informatics Association, Annual Symposium, 2015, San Francisco, CA.* †
6. Srinivas, P., **Faiola, A.**, and Doebbeling, B. (10/15/2015). A Ubiquitous Situation-Aware Data Visualization Dashboard to Reduce ICU Clinician Cognitive Load, Presented at: *IEEE HealthCom 2015 Conference, Boston, MA.* †
7. Srinivas, P., **Faiola, A.**, and Khan, B. (10/15/2015). Supporting Information Management in ICU Rounding: A Novel Mobile System for Managing Patient-Centered Notes and Action-Items, Presented at: *IEEE HealthCom 2015 Conference, Boston, MA.* †
8. Srinivas, P., Tunnell, H., **Faiola, A.**, and Haggstrom, D. (2015). Clinicians as Secondary Users of Patient-Centered, Mobile Technology in Complex Healthcare Settings, Presented at: *IEEE HealthCom 2015 Conference, Boston, MA.* †
9. Srinivas, P. and **Faiola, A.** (4/26/2015). Improving patient safety: Integrating data visualization and communication into ICU workflow to reduce cognitive load. Presented at: *Conference for Human Factors and Ergonomics in Health Care (Improving the Outcomes) April 26, 2015, Baltimore, MD.* †
10. Srinivas, P., **Faiola, A.** (11/15/2014). Modeling daily rounds to support efficient task management in ICU workflow. Presented at: *WISH: Workshop on Interactive Healthcare Systems, Washington, DC, in conjunction with the American Medical Informatics Association (AMIA) Annual Symposium.* †
11. **Faiola, A.** and Srinivas, P. (10/22/2014). Reducing error in the intensive care unit: A novel approach to workflow modeling and distributed clinical intelligence. Presented at: *eHealth Initiative's Data and Analytics Council Webinar: A System Approach to Healthcare.* †

12. Boston-Clay, C., Jones, J., **Faiola, A.**, Dixon, B. and Pfaff, M., (11/15/2014). Assessing Health Information Technology Acceptance: Developing a Human Computer Interaction Activity-Centered Acceptance Framework, Presented at: *Dissertation Review, Presented at the Conference for American Medical Informatics Association (AMIA) Annual Symposium, Washington, DC, November 15-19, 2014.* †
13. Srinivas, P. and **Faiola, A.** (9/13/2014). Extreme mediation: Observing mental and physical health in everyday life, Presented at: *2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing, Presentation, Seattle, WA.* †
14. Srinivas, P., **Faiola, A.** (4/26/2014). Modeling daily rounds to support efficient task management in ICU workflow. Presented at: *WISH 2014: Workshop on Interactive Healthcare Systems, Presentation Nov. 15, 2014, Washington, DC.* †
15. **Faiola, A.**, and Srinivas, P. (11/15/2014). A novel approach to ICU data visualization and communication integration. Presented at: *Workshop on Interactive Systems in Healthcare (WISH), AMIA, Washington, DC. (in conjunction with the American Medical Informatics Association (AMIA) Annual Symposium).* †
16. **Faiola, A.**, Srinivas, P., Karaham, Y., Chartash, D., and Doebbeling, B. (4/26-31/2014). VizCom: A Novel Workflow Model for ICU Clinical Decision Support. Presented at: *ACM CHI '14, Toronto, Canada, April 23-31, 2014. New York, NY: Association for Computing Machinery Press.* †
17. **Faiola, A.** (11/16/2013). Sociocultural-Embodied Consciousness: An Integrated Theory, Presented at: *13<sup>th</sup> International Readings of L.S. Vygotsky: Psychology of Consciousness: Origins and Perspectives, Russian State University for the Humanities, Vygotsky Institute of Psychology, Moscow, Russia, November 12-16, 2013.*
18. **Faiola, A.** (11/16/2013). Socio-Augmentation of Human Systems: Deconstructing Cyborg Consciousness. Presented at: *13<sup>th</sup> International Readings of L.S. Vygotsky: Psychology of Consciousness: Origins and Perspectives, Russian State University for the Humanities, Vygotsky Institute of Psychology, Moscow, Russia, November 12-16, 2013.*
19. **Faiola, A.** (5/31/2013) Distributed Creative Activity: Augmenting Interpersonal Cognition in Clinical Activity through Health Information Technology. Presented at: *Scientific Conference on Fundamental Problems of Psychology, Extended Abstracts, Parallel Session on the Psychology of a Humans Immersed in Information Technology, Moscow State University, Moscow, Russia.*
20. **Faiola, A.**, Boston-Clay, C., Jones, J., Newlon, C., and Downey, M. (4/15/2012). Managing Patient Health Across Diverse Spaces: Using Activity Theory to Model Clinical Decision-Support for the Home. Presented at: *ACM CHI '12 Extended Abstracts on Bridging Clinical and Non-Clinical Health Practices: Opportunities and Challenges, Workshop, Austin, TX. New York, NY: Association for Computing Machinery Press.*
21. Bolchini, D. and **Faiola, A.** (7/15/2011). It's Mobile Before It's Real: Extreme Prototyping with "Paper-in-Screen, In G. Salvendy and J. Jacko (Ed.), Presented at: *14th International Conference on Human-Computer Interaction. Orlando, FL, 2011 (Lawrence Erlbaum).*
22. **Faiola, A.** and Newlon, C. (7/15/2011). Advancing Critical Care in the ICU: A Human-Centered Biomedical Informatics Approach to Designing Data Visualization Systems, In G. Salvendy and J. Jacko (Ed.), Presented at: *14th*

*International Conference on Human-Computer Interaction*. Orlando, FL, 2011 (Lawrence Erlbaum).

23. **Faiola, A.** and Downey, M. (11/15/2011). Transforming Clinician Psychology via Health Information Technology as Tools of Mediation: Understanding Medical Information Visualization Systems Using Cultural-Historical Theory, Presented at: *12th International Readings of L.S. Vygotsky: Sign as a Psychological Tool*, Russian State University for the Humanities, **Moscow, Russia**, November 14-17.
24. Pulido, D., Bolchini, D. and **Faiola, A.** (2/4/2010). Paper-in-screen prototyping: Rapid techniques to test and anticipate the mobile user experience. Presented at: *Interaction Design 2010, 10th Annual International Conference*. Savannah, GA. †
25. Matei, S. A., Bruno, R. J., Morris, P. L., and **Faiola, A.**, (9/29/2010). Visible Effort: A Social Entropy Methodology for Managing Computer-Mediated Collaborative Learning, Presented at: *Fourth Global Communication Forum, Global Cities in eTimes: Urban Design, Creativity, Collaboration*, **Shanghai, China**.
26. Edgardo, L., Bolchini, D. and **Faiola, A.** (7/22/2009). Evaluating usability-supporting architectural patterns: Towards bridging the communication gap between software engineers and usability professionals. Presented at: Presented at: *13th International Conference on Human-Computer Interaction*. San Diego, CA. †
27. Duke, J. and **Faiola, A.** (7/23/2009). Health Informatics and Drug Effect Ranking: A Novel Data Visualization of Medication Side-Effects in Multi-Drug Regimens. Presented at: Presented at: *13th International Conference on Human-Computer Interaction*. San Diego, CA.
28. **Faiola, A.** and Smyslova, O. (7/23/2009). Flow experience and telepresence in second life: Correlating pleasure, immersion, and interaction in virtual communities. Presented at: Presented at: *13th International Conference on Human-Computer Interaction*. San Diego, CA.
29. Kharrazi, H. and **Faiola, A.** (7/24/2009). Healthcare Game Design: Behavioral Modeling of Serious Gaming Design for Children with Chronic Diseases. Presented at: Presented at: *13th International Conference on Human-Computer Interaction*. San Diego, CA.
30. Newlon, C., **Faiola, A.**, and MacDorman, K. (7/9/2008). Building the Mega-Collaboration Interface: Behavioral, Cultural, and Cognitive Factors in the Design, Presented at: *The HCI Symposium – Information Visualization Conference 2008, IEEE*, **London, England**. †
31. **Faiola, A.** and Hillier, S. (2/17/2007). Expediting Health Care Decision-Making Using Multivariate Relational Datasets: A Medical Data Visualization System for Complex Critical Care Patient Assessments. Presented at: *Workshop on HCI and Information Design to Communicate Complex Information*, University of Memphis, Memphis TN.
32. Voiskounsky, A. E. and **Faiola, A.** (7/23/2007). Flow experience of MUD players: Investigating multi-user dimension gamers from the USA. Presented at: *12th International Conference on Human-Computer Interaction*. **Beijing: China**.
33. **Faiola, A.** and Matei, S. A. (3/15/2007). *Online education and the cross-cultural learner: Toward a theory of cultural cognitive design for the web*. Session: Research on



*Learning in Virtual Environments*. Presented at: American Educational Research Association 2007 Annual Meeting, Chicago, Illinois.

34. Matei, S. A., Wheatley, D. J., and **Faiola, A.** (6/19/2006). *Multipurpose mobile devices, graphic user interfaces and physical affordances: a case study*. Presented at the: International Communication Association Conference, **Dresden, German**.
35. Beatty, K, Elliott, R. and **Faiola, A.** (6/28/2006). Seeking news on the internet: an analysis of user behavior in selecting online media outlets. Presented at: *6th Biennial Conference on Cultural Attitudes Towards Technology and Communication*, University of Tartu, Estonia. †
36. Newlon, C. and **Faiola, A.** (6/28/2006). Support for mega-team collaboration. Presented at: *6th Biennial Conference on Cultural Attitudes Towards Technology and Communication*, University of **Tartu, Estonia**. †
37. **Faiola, A.** and Hillier, S. (7/5/2006). Multivariate relational visualization of complex clinical datasets in a critical care setting: a data visualization interactive prototype. Presented at: *Information Visualization Conference 2006*, **London, England**.
38. **Faiola, A.** (7/25/2005). Integrating the Visualization of Personal Histories to Enhance File Search in 3D Landscapes: Applying File Search to 3PDPView. Presented at: *11th International Conference on Human-Computer Interaction.*, Las Vegas, NV.
39. **Faiola, A.** and Matei, S. (5/17/2005). The cultural cognitive style of multimedia development: Identifying designer cognitive structures for the web. Presented at the: *International Communication Association Conference*. New York City, NY.
40. **Faiola, A.** (7/25/2005). *The Design Enterprise: Rethinking the HCI Education Paradigm*. Presented at: Presented at: *11th International Conference on Human-Computer Interaction*. Las Vegas, NV.
41. **Faiola, A.** (7/25/2005). *Cross-Cultural Computer-Mediated Communication and Online Learning: Assessing the Impact of Web Designer Cognitive Style on Information Design*. Presented at: *11th International Conference on Human-Computer Interaction*. Las Vegas, NV.
42. **Faiola, A.**, (7/22/2004). Living with computing: Thoughts on humanizing technology. (Colloquium Presentation.) Presented at the: *Second International Conference on New Directions in the Humanities, 2004*, Monash University Centre, **Prato, Italy**.
43. Buher, M. and **Faiola, A.** (7/24/2004). Using 3D landscapes to navigate filespace: Extending the data mountain with mountainview. Presented at the: *HCI Symposium –Information Visualization Conference 2004, IEEE*, **London, England**. †
44. **Faiola, A.** (7/10/2003). *The Copernican shift: HCI education and the design enterprise*. Presented at: *10th International Conference on Human-Computer Interaction*. **Crete, Greece**.
45. **Faiola, A.** (6/27/2003). *eBook Technologies in America and Russia*. Conference of the World Bank and Russian National Fund of Education and Training for Schoolbook Editors and Editorial Staff, **Moscow, Russia**.

46. **Faiola, A.** (6/24-26/2003). *Children's Book Typography: An Overview of Practice and Empirical Study*. Conference of the World Bank and Russian National Fund of Education and Training for Schoolbook Editors and Editorial Staff, **Moscow, Russia**.
47. **Faiola, A.** (5/28/2002). *eBook Market Potential in Russia: Trends, Copyrights, and Technologies*. Council on University Publishing in Russia (10th Annual Conference), **Moscow, Russia**.
48. **Faiola, A.** and Sturm, C. (4/22/2002). Cross-Cultural Workshop Presentation (Part 2): Aspects of Remote Testing. Presented at the: *ACM CHI Conference, It's A Global Economy Out There: Usability Innovation for Global Market Places*. Minneapolis, MN.
49. **Faiola, A.** (4/22/2002). Cross-Cultural Workshop Presentation (Part 1): Cross-cultural studies of hypermedia design and accessibility. Presented at the: *ACM CHI Conference, It's A Global Economy Out There: Usability Innovation for Global Market Places*. Minneapolis, MN.
50. **Faiola, A.** and Rosenbaum, H. (4/23/2002). *SIG Forum: Challenges in teaching usability theory and testing for new media and novel interface technologies*. Presented at the: ACM CHI Conference. Minneapolis, MN.
51. **Faiola, A.** and Rosenbaum, H. (4/23/2002). *Challenges in teaching usability theory and testing for new media and novel interface technologies. Special Interest Group Forum for Educators of HCI, ACM CHI '02 Conference. Poster Session*, Minneapolis, MN.
52. **Faiola, A.** (4/22/2002). Russian and American Mental Models and the World-Wide-Web: A Cross-Cultural Study of Hypermedia Design and Accessibility. Presented at the: *ACM CHI'02, Usability Workshop: Usability Innovation for Global Market Places*, Minneapolis, MN.
53. **Faiola, A.** (11/8/2001). Understanding Usability for New Media Products: Design and Testing Principles for Graphic User Interfaces, Information Architecture, and Navigation. (2-Day Short Course - via digital media) University of San Paulo, Presented at the: *Graphica 2001, International Conference on Graphics Engineering for Arts and Design*, **San Paulo Brazil**.
54. **Faiola, A.** (4/2000). Cross-cultural landscapes of visual intelligence: An investigation across cultural boundaries. Iowa State University, Presented at the: *International Visual Literacy Association Annual Conference*, Ames, Iowa.

Invited Research Presentations [Total: 36]

(**International in Bold.**)

1. Faiola, A. (4/28/2017). *mHealth Design for Patient and Family Care: Recent Studies Supporting Healthy Lifestyle Management*, Presented to: Department of Biomedical Informatics, College of Health Solutions / Mayo Clinic, Arizona State University, Scottsdale, AZ.
2. Faiola, A. (3/31/2016). *Biomedical & Health Informatics: Empowering Patients and their Families through mHealth*, Presented to: Department of Informatics, Health Informatics Faculty, UC Irvine, CA.
3. Faiola, A. (12/6/2016). *Biomedical Interaction Science: The Study of Healthcare Interactions that Impact the Design and Implementation of Health IT*, Presented to:

Biomedical and Health Informatics Colloquium, The University of Illinois at Chicago.

4. Faiola, A. (11/11/2016). *Biomedical Interaction Science: A Journey from the Fine Arts to Biomedical Informatics*, Presented to: Department of Computer Science, The University of Illinois at Chicago.
5. Faiola, A. (11/3/2016). *A Double Helix: Parallel Journeys Separated by Time—From the Fine Arts to the Health Sciences*, Presented to: Frank Armitage Biannual Lecture Forum, The Department of Biomedical Visualization, The University of Illinois at Chicago.
6. Faiola, A. (5/15/2014). *Technologies that Transform Health and Wellness: The Effects of Non/Invasive Systems on Human Consciousness*, Presented at: DeVault Otologic Research Laboratory, Indiana University School of Medicine, Colloquium Lecture Series.
7. Faiola, A. (9/18/2014). *Technologies that Transform Health and Wellness: The Effects of Non/Invasive Systems on Human Consciousness*. Presented at: Moscow State University, Department of Psychology, **Moscow, Russia**.
8. Faiola, A. (5/31/2013) *Distributed Clinical Intelligence: A Decision-Support VizCom System that Supports Intensivist Activity in the ICU*, *Work-in-Progress Speaker Series: Invited Talks*. Presented at: Regenstrief Institute, Indianapolis, IN.
9. Faiola, A. (9/24/2012). *Managing Patient Health Across Diverse Spaces: Using Cultural Historical Activity Theory to Model Pervasive Decision-Support*, Presented at: Department of Informatics, **Umeå University, Sweden**.
10. Faiola, A. (9/11/2012). *Managing Patient Health Across Diverse Spaces: Using Cultural Historical Activity Theory to Model Pervasive Decision-Support*, Presented at: Laboratory of Human-computer Interaction and Group Technology, Department of Information Processing Science, **University of Oulu, Finland**.
11. Faiola, A. (11/20/2011). *The Effects of Flow in Virtual Worlds and Game-Based Learning Behavior*. St. Petersburg State University, Department of Psychology, **St. Petersburg, Russia**.
12. Faiola, A. (11/20/2011). *Data Visualization as Psychological Tools of Mediation and Clinical Learning*. Presented at: Beijing University, Department of Computer Science, HCI Lab, **Beijing, China**.
13. Faiola, A. (12/3/2011). *Clinical Decision Support InfoViz Systems: Modeling Complex Medical Space Using Cultural-Historical Activity Psychology*. Presented at: Tallinn University, Informatics Institute, **Tallinn, Estonia**.
14. Faiola, A. (11/17/2011). *Data Visualization as Psychological Tools of Mediation and Clinical Learning*. Presented at: Moscow State University, Department of Psychology, **Moscow, Russia**.
15. Faiola, A. and Hillier, S. (3/22/2010). *Medical Data Visualization System for Complex Critical Care Patient Assessments*. Presented at: Research Day and Community Research Showcase, Indiana University Research and Technology Corporation, Indianapolis, IN.

16. Bakowski, D., **Faiola, A.** and Witt, G. J. (10/31/2008). *Transportation Usability: Panel Session. World Usability Day, Workshop and Seminar, Indiana Chapter Usability Professionals' Association (UPA), Indianapolis, IN.*
17. **Faiola, A.,** Hillier, S., and Saleem, J. (11/8/2007). *Usability of Health Information Technology: Biomedical Human-Computer Interaction for Improving Patient Care (Part 1: Data Visualization and Critical Care Patient Evaluation; Part 2: Using Human Factors Methods to Design a New Interface for an Electronic Medical Record).* World Usability Day, Workshop and Seminar, Indiana Chapter Usability Professionals' Association (UPA), Indianapolis, IN.
18. Faiola, A. (11/14/2006). *Return on investment and Usability.* World Usability Day, Workshop and Seminar, Indiana Chapter Usability Professionals' Association (UPA), Indianapolis, IN.
19. Faiola, A. (12/17/2004). *Principles of Design and Usability for Web Publishing.* Presented at: Moscow State University of the Printing Arts, **Moscow, Russia.**
20. Faiola, A. (12/14/2004). *Computer Graphics and Prototype Construction: Engineering Products that Work for Humans.* Presented at: House of Scientists, St. Petersburg, **Russia.**
21. Faiola, A. (12/18/2004). *HCI Pedagogy: A New Framework.* Moscow State University, Department of Psychology and ACM CHI Chapter in **Moscow, Russia.**
22. Faiola, A. (6/12/2003). *New Media Usability: Theory and Best Practices.* St. Petersburg Institute of Information Technology and Optics, Russia, Department of Computer Graphics and Engineering, **St. Petersburg, Russia.**
23. Faiola, A. (12/17/2003). *Multimedia Interface Design and Usability.* Presented at: Moscow State University of the Printing Arts, Department of Information Technology, **Moscow, Russia.**
24. Faiola, A. (5/21-23/2002). *eBook Technologies: An Overview.* Moscow State University of the Printing Arts, Department of New Media and Distance Education. **Moscow, Russia.**
25. Faiola, A. (5/16/2002). *Designing a User-Centered Web Interface: Design, Architecture and Usability.* Presented at: Art and Design Institute of Berlin, Industrial Design Department, **Berlin, Germany.**
26. Faiola, A. (5/14/2002). *Web Usability and International User Interfaces: Theory, Tools, and Techniques.* Presented at: University of Bremen, Computer Science Department, New Media Program, **Bremen, Germany.**
27. Faiola, A. (5/13/2002). *Designing a User-Centered Web Interface: Design, Architecture and Usability.* Presented at: Delft Technical University, Computer Science Department, Media Knowledge, **Delft, Netherlands.**
28. Faiola, A. (5/7-9/2002). *New Media Interface Design and Usability: Design Theory and Testing for Web Products.* Presented at: University of Amsterdam, New Media Department, **Amsterdam, Netherlands.**

29. Faiola, A. (6/6/2002). *Web Usability Theory Models for Teaching and Application*. House of Scientists, **St. Petersburg, Russia**.
30. Faiola, A. (5/10/2002). *Curricula and Cross-Cultural Issues in Interactive Media Usability*. Mediamatic Design, Consulting Group, **Amsterdam, Netherlands**.
31. Faiola, A. (6/3-5/2002). *New Media Usability: Theory and Best Practices*. St. Petersburg Institute of Information Technology and Optics (Tech University), Department of Computer Graphics and Engineering, **St. Petersburg, Russia**.
32. Faiola, A. (6/2000). *The New Media Enterprise: The Emergence of ePublishing*. Presented at: Moscow State University of the Printing Arts, **Moscow, Russia**.
33. Faiola, A. (5/8 to 7/23/2000). *Preparing the Digital Designer for Future Trends and Strategies in an Info-Graphic Global Society—Part 2. (Human-Computer Interaction: User Interface Design for the Web)*, St. Petersburg Institute of Information Technology and Optics, Russia. Department of Computer Graphics and Engineering, **St. Petersburg, Russia**.
34. Faiola, A. (12/13-30/1999). *Preparing the Digital Designer for Future Trends and Strategies in an Info-Graphic Global Society—Part 1. (Visual Communication Theory and Design)*. St. Petersburg Institute of Information Technology and Optics (Tech University), Russia. Department of Computer Graphics and Engineering, **St. Petersburg, Russia**.
35. Faiola, A. (5/20/1999). *New Media Graphics Curricula: Pedagogy and Methodology*. House of Scientists, **St. Petersburg, Russia**.
36. Faiola, A. (5/11-13/1999). *Digital Publishing in the New Millennium*. Presented at: St. Petersburg Institute of Information Technology and Optics, Department of Computer Graphics and Engineering. Midwest Universities Consortium International Association, **St. Petersburg, Russia**.

#### Invited Service Presentations [11 Total]

1. Faiola, A. (2/21/2017). *Departmental Research Overview*. Presented at: Department of Health Informatics, King Saud bin Abdulaziz University for Health Science, Riyadh, **Kingdom of Saudi Arabia**.
2. Faiola, A., (12/21/2011). *SoIC Recruitment Presentation: Research and Teaching and Overview of the Indiana University School of Informatics and Computing at IUPUI*, University of Public Relations, Beijing, **China**.
3. Faiola, A., (12/19/2011). *SoIC Recruitment Presentation: Research and Teaching and Overview of the Indiana University School of Informatics and Computing at IUPUI*. School of Information Management, Sun Yat-Sen University, Guangzhou, **China**.
4. Faiola, A., (12/16/2011). *SoIC Recruitment Presentation: Research and Teaching and Overview of the Indiana University School of Informatics and Computing at IUPUI*. School of Communication and Design, Sun Yat-Sen University, Guangzhou, **China**.
5. Faiola, A. (10/14/2005). *Principles of web design and usability: Improving accessibility to law library online information*. Ohio Regional Association of Law Libraries

(ORALL) and Chicago Area Law Librarians (CALL). Indiana University Purdue University Indianapolis, School of Law.

6. Faiola, A. (4/13/2005). *Interaction design and system usability: Design an Effective strategy for Web and software development*. Indianapolis Quality Assurance Association Inc.
7. Faiola, A. (4/6/2005). *Web design and usability: Design an Effective strategy for academic Web development*. IUPUI Communications Division and Campus-Wide Web Deployment.
8. Faiola, A. (11/20/2003). *Disciplinary Overview of Human-Computer Interaction: Bi-Annual Presentation to I502*. Indiana University – SoIC, IUPUI. Presented each semester to beginning graduate students.
9. Faiola, A. (3/14/2001). *New Media Usability. TechConnect, Poster Session*, Indiana University Purdue University, Indianapolis, IN. (Invited presentation, initiated by the department.)
10. Faiola, A. (2/14/2001). *Human Computer Interaction and Multimedia Usability Testing: Understanding the Key Components for Building Effective Interfaces*. Purdue University, Human Factors and Ergonomics Society, West Lafayette, IN.
11. Faiola, A. (1/20/1999). *Indiana Universities Printing Schools Update, Printers Industry of Indiana, Annual PII Education Forum*, Indianapolis, IN.

## GRANTS & SCHOLARSHIPS

External Research Grants—Awarded				
Title / Granting Agency / Role	Effort	Amount	Date	Location
<b>NSF – Smart and Connected Health [ACTIVE]</b> Canine-Inspired Smart Sensor for Detecting Hypoglycemia from Human Breath	<b>Co-PI</b> 30% <b>Site PI</b>	\$790,000	2015-2018	Purdue University & University of Illinois at Chicago
<b>MacArthur Foundation, 08-91858-000-HCD</b> Creatures Classified: An exploration of cataloging creatures across the galaxy	<b>Co-PI</b> 25%	\$50,000	2009-2010	SoIC
<b>U.S. Dept. of Veterans Affairs 039384-00002B</b> Clinical Handoff Tool Assessment:	<b>PI</b> 7%	\$6,800	2006	SoIC & U.S. VA Medical Cen., Indy, IN
<b>Clarian Health, VFE-183</b> Computerized Education to Prevent Hypoglycemia When Driving	<b>PI</b> 33%	\$80,000	2006	SoIC /School of Medicine
<b>Walther Cancer Institute, # 601-3200-00-0002</b> A Web-Based System to Support Family Caregiving for Cancer Patients	<b>Co-PI</b> 8.3%	\$396,147	2009-2011	SoIC & School of Nursing
<b>Fulbright Scholarship: Senior Specialist Lectures</b> Communication & Online Publishing Technologies	<b>PI</b> 100%	\$6,000	2003	Moscow State U. of the Printing Arts, Russia
<b>Fulbright Scholarship: Senior Specialist Lectures</b> Communication & eBook Technologies	<b>PI</b> 100%	\$6,000	2002	Moscow State U. of the Printing Arts, Russia
<b>Fulbright Scholarship: Traditional Award</b> Interactive Media, Usability, and Design Communication	<b>PI</b> 100%	\$30,000	2000	Institute of Tech., Optical Design and Engin, St. Petersburg, Russia
<b>Midwest University Consortium Association</b> Digital Publishing in the New Millennium: Lectures Series	<b>PI</b> 100%	\$2900	1999	Purdue U. & Institute of Tech., Optical Design and Eng., St. Petersburg, Russia
<b>Grants—9</b>		<b>\$1,367,847.00</b>		

Internal Research Grants—Awarded				
Title / Granting Agency / Role	Effort	Amount	Date	Location
<b>Solution Center Grant</b> Medical Information Visualization Assistant – System Design (Phase 4 Funding)	<b>PI</b> 100%	\$4,600	2014	SoIC
<b>Solution Center Grant</b> Medical Information Visualization Assistant – System Design (Phase 3 Funding)	<b>PI</b> 100%	\$36,000	2013	SoIC
<b>IU Research Support Funds Grant Application</b> Support for Purchase of BioPac Psycho-physiological Measuring Equipment	<b>PI</b> 25%	\$13,000	2010	SoIC
<b>Solution Center Grant</b> Medical Information Visualization Assistant –	<b>PI</b> 100%	\$25,000	2009	SoIC

System Design (Phase 2 Funding)				
<b>IUPUI Research Support Fund Grant</b> Using Interactive Games to Improve Treatment Adherence in Children with Type 1 Diabetes	<b>Co-PI</b> 10%	\$29,000	2009	SoIC
<b>Solution Center Grant</b> Medical Information Visualization Assistant – System Design (Phase 1 Funding)	<b>PI</b> 100%	\$8,000	2008	SoIC
<b>IU Research Grant, Part 2</b> Russian and American Cross-Cultural Study of Hypermedia Design and Accessibility	<b>PI</b> 100%	\$1,070	2003	SoIC & Institute of Tech., Optical Design & Engineer., St. Petersburg, Russia.
<b>IU Research Grant, Part 1</b> Russian and American Cross-Cultural Study of Hypermedia Design and Accessibility	<b>PI</b> 100%	\$2000	2002	SoIC & Institute of Tech., Optical Design & Engineer., St. Petersburg, Russia.
<b>Purdue Research Summer Grant</b> Qualifying Digital Color Targets for Skills and Knowledge Standard:	<b>PI</b> 100%	\$5000	2000	Graphic Arts Tech. Found. Pitts., PA
<b>Grants—9</b>		<b>\$123,670.00</b>		

Internal Research & Teaching Travel Grants—Awarded				
Title / Granting Agency / Role	Effort	Amount	Date	Location
<b>IU Office of International Prog. Overseas Conf. Fund</b> 12th International Conference on Information Visualization: Human-Computer Interaction Symposium	<b>PI</b> 100%	\$600	2008	SoIC
<b>IU International Travel Grant</b> CATac'06 Cultural Attitudes Towards Technology and Communication	<b>PI</b> 100%	\$600	2006	Estonia England
<b>IU International Travel Grant</b> Study of Cross-cultural Behavior of International Online Gamers	<b>PI</b> 100%	\$2000	2006	Moscow State U., Russia
<b>IU International Travel Grant</b> The Copernican shift: HCI education and the design enterprise	<b>PI</b> 100%	\$750	2003	Crete, Greece
<b>Grants—4</b>		<b>\$3,950.00</b>		



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## PATENTS & COMPANIES

### Patents

#### *Awarded*—US Patent 2/4/2014: Patent #8645164.

Product Name: *MIVA: Medical Information Visualization Assistant*, US Patent filed 6/18/2010. A data visualization clinical decision support system for use in the ICU or other clinical-data-intense environments. Patent Holders/Inventors:

1. **Anthony Faiola**, Ph.D. Indiana University
2. Simon Hillier, MD Dartmouth College

#### *Pending*—US Patent Filed 4/13/2015: Patent Application #685298.

Product Name: Low Power Wireless Sensor System with Ring Oscillator and Sensors for Use in Monitoring of Physiological Data. Patent Holders/Inventors:

1. **Anthony Faiola**, Ph.D. Indiana University / Purdue University
2. Kody Varahramyan, Ph.D. Vice Chancellor for Research, IUPUI
3. Mangilal Agarwal, Ph.D. Assoc. Dir. Research Development, IUPUI
4. Sudhir Shrestha, Ph.D. Purdue School of Engineering and Tech, IUPUI
5. Hossein Jafarian, Ph.D. Purdue School of Engineering and Tech, IUPUI

### Companies

#### *Advanced Insight Medical (AIM), LLC*—Anthony Faiola, CEO

Registered in Indiana, D&B DUNS Number: 078682124

Dedicated to biomedical and health informatics and information science research that crosses the spectrum between clinical work environments to self-care / self-monitoring mobile technologies. The aim of the research is to produce health information technologies that are:

- **Safe**—reduces risk and mitigates error, while ensuring a safe healthcare experience for the patient,
- **Effective**—provides tools that facilitate communication and optimal delivery of clinical data and general health information through the use of innovative technology that enable patient care and family support that is both coordinated and informed, and
- **Efficient**—reduces waste (for clinicians, patients, or family members), with appropriate allocation of resources (physical/ cognitive) to deliver safe and effective care.

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## TEACHING

### Description Legend

† = New Course Development

†† = Complete Revision

[R] = Research Methods Courses Taught

[P] = PhD Courses

UIC = University of Illinois at Chicago

IU-SoIC = Indiana University – School of Informatics and Computing

PU-PPI = Purdue University – Purdue Polytechnic Institute

UIC = University of Illinois at Chicago

HCC = Human Centered Computing

HI = Health Informatics

HIT = Health Information Technology

HCI = Human-Computer Interaction

\* = University of Wisconsin, Milwaukee, Health Informatics

Note: Apart from new students, all PhD students have been mentored 3-5 years.

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### Courses Taught and Developed (1998 to Present)

#### Master's and Ph.D.\* Courses Taught

COURSE#	COURSE TITLE	CLASS	SIZE	TYPE	UNIVERSITY
BHIS501	Design Thinking for Health: Seminar 1	(Starts:: Spg. 2018)			UIC
BHIS500	Strategic Inquiry—Research Project	[R]	1		UIC
H680	HCI Professional Practice 1 ( <i>Capstone</i> )	[R]	15	†	IU-SoIC
H681	HCI Professional Practice 2 ( <i>Capstone</i> )	[R]	15	†	IU-SoIC
H501	Introduction to Informatics for HCI	[P] [R]	24	†	IU-SoIC
N500	Foundations of Digital Arts Production		18	††	IU-SoIC
I541	Human Computer Interaction 1		15	†	IU-SoIC
I564	Prototyping for Interactive Systems		5	†	IU-SoIC
I554	Special Study in Computer-Mediated Com		5	†	IU-SoIC
I543	Usability and Evaluative Methods for HCI	[R]	8	†	IU-SoIC
I694	Thesis in HCI	[R]	3	†	IU-SoIC
I624	HCI Seminar I	[P]	8	†	IU-SoIC
I634	HCI Seminar 2	[P]	3	†	IU-SoIC
I694	Graduate Thesis / Research		7	†	IU-SoIC
I790	Research Rotations	[P] [R]	8	n/a	IU-SoIC
H890	Dissertation Research	[P] [R]	5	n/a	IU-SoIC
T519	Human Factors of Interface Design		8	††	PU-PPI

### ***Undergraduate Courses Taught***

COURSE#	COURSE TITLE	CLASS	SIZE	TYPE	UNIVERSITY
I305	Introduction to Research	[R]	30	++	IU-SoIC
I300	Human-Computer Interaction		30	++	IU-SoIC
I270	Intro to HCI Principles and Practices		12	++	IU-SoIC
N499	New Media Capstone Research Project		4	n/a	IU-SoIC
N450	Usability Principles for New Media Interfaces		18	+	IU-SoIC
N420	Multimedia Project Development		16	++	IU-SoIC
N100	Introduction to Digital Media Principles		80	++	IU-SoIC
T115	Introduction to Technical Illustration		37	++	PU-PPI
T203	Technical Graphics		38	++	PU-PPI
T203	Publishing I: Page Layout and Design		30	++	PU-PPI
T103	Publishing II: Basic Techniques		35	++	PU-PPI
T111	Design for Visualization and Communication		120	++	PU-PPI
T256	Human Computer Interaction Theory and Design		15	++	PU-PPI

### ***New Course Development (Not Taught)***

COURSE#	COURSE TITLE	TYPE	UNIVERSITY
I275	Introduction to HCI Theory	++	IU-SoIC
I480	Experience Design and Eval. of Ubiquitous Computing	++	IU-SoIC
I563	Psychology of Human-Computer Interaction	[R] ++	IU-SoIC
I542	Human-Computer Interaction II	++	IU-SoIC

### **Advising and Mentoring**

#### ***Ph.D. Dissertation and/or Research Advising***

STUDENTS	DATES	DEPT / SCHOOL / RESEARCH AREA OR DISSERTATION
Maryam Zolnoori	2015-17	HI / Health Sci., UW* Exploring drug side-effects for depression in online healthcare communities: An examination of health and social media
Eric Vorm	2015-16	IU-SoIC / HCC Health Information Technology
Luiz Cavalcanti	2015-16	IU-SoIC / HCC Health Information Technology
Abdullah Almojaibel	2014-16	Health / Rehab Sci. TeleRespiratory healthcare for acceptance scale development
Masoud Hosseini	2014-16	Health Inform., SoIC Consolidating CCDs from multiple data:

## HL7 – Medical Record System sources

Yamini Karanam	2013-16	IU-SoIC / HCC Health Information Technology
Preethi Srinivas	2012-16	IU-SoIC / HCC Tools for Managing Notification Interruptions in the ICU
Harry Tunnel	2011-16	IU-SoIC / HCC Promoting common ground in a clinical setting: A study of secondary users
Crystal Boston-Clay	2011-16	IU-SoIC / HCC / HI Assessing health information tech. acceptance
Christine Newlon	2010-16	IU-SoIC / HCC Building the mega-collaboration interface
Afarin Pirzadeh	2010-12	HCC/HCI/SoIC Emotion Communication
Palilonis Jennifer	2010-12	HCC/HCI/SoIC Electronic Reading Systems
Rohani Romisa	2010-11	HCC/HCI/SoIC Aural Browsing
Robert Morse	2008-10	HCC/HCI/SoIC Visual Analytics

## MS Graduate Students — Thesis and Capstone Mentoring & Advising

STUDENT	DATES	THESIS TITLE
Kate Greenhill	2016-17	Visualizing Disease: An Aid to Physician-Family Communication
Bhuma Manjula	2016-17	Design of a Hypoglycemic Data Visualization mHealth System
Juan Campos	2015-16	Business Management System: A Salesforce App
Asa Blevins	“	“
Kelly Chan	“	“
Lindsay Kaser	“	“
Abdulaziz Iderhami	2015-16	An Easter Seals System: An App for People w/ Disabilities
Dhanashree Bhat	“	“
Anwar Eaton	“	“
Alex Gountras	“	“
Lawrence Moore	2015-16	A Health-X App for Providers and Members
Soumya Dash	“	“
Natalie Hall	“	“
Dushyant Shrikhande	“	“
Gaurav Mallikarjuna	2015-16	An AV-Lab Adventure: A University Tour-Guide App
Shilpa Pachhapurkar	“	“
Erin Sheets	“	“

Manisha Yogan	“	“
Julie Elbin	2015-16	GiveHalvsies: A Crowd-Sourcing App
Deb Strzeszkowski	“	“
Kunal Bodke	“	“
Poorva Kulkarni	“	“
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Xinxin He	2014-15	Notes Hub
Michael J. Frontz	2014-15	Art Fair Tracker-Application Management Sys. for Artists
Dennis Leonardo	2014-15	Patchwork: Collaborative Learning Hub
Daoyi Wang	2014-15	Food Solution-Food Justice
Ashleigh Young	2014-15	Better Days: Mental Health Application
Bunmi Akintomide	2014-15	Achat: Your Fashion Shopping Buddy
Yachung Cheng	2014-15	Help2Buy - A Sharing Economy Service
Meng Zhang	2014-15	Mappy - A collaborative navigation application
Ryan Ahmed	2014-15	HealthTrack – A Health Mobile App
Shivin Saxena	2014-15	CulAmi: Smart Kitchen UX using Touchless Interaction
Malvika Bansal	2014-15	Prox - Rapid Information Propagation using Beacons
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Christopher Lee	2008-09	Mask Commun. of Afr.-Amer: Interpretive Interactions Online
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Kevin Szerszen	2007-08	Testing the Validity of Skill Transference in Video Games
Diego Ramirez	2007-09	Paper-in-Screen Prototyping: An Agile Tech to Anticipate...
Amy Hu	2007-08	Prosodic Alignment in Human Computer Dialogues
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Avery Nelson	2006-09	Info. Computerization: Investigating the Prod. Paradox
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Keith Rodewald	2003-04	TrendVendor: An E-Commerce Web App Employing Data...
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Tim Altom	2004-06	A Comparison of SPRT and Trad. Approaches for Determining...
Melynda Buher	2004-06	Toward a Theory for Online Instructional Design: Eval....
Maira Parveen	2004-06	Investigating Children's Online Learn. Environment
Chatree Campiranon	2004-05	Web-Based Management for Email Overload
Ming-Liang Liu	2004-05	Assessing User Performance of Online Digital Photography Library
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Victor Tanner	2005-06	Enhancing Student Perform. for 3D Modeling Software Learners
Edgardo Luzcando	2005-08	Design of Software Develop. Environments for Software Designers
Stuart Ough	2005-06	Affect Index: Testing the Validity of Affective States in Music
Young-Joo Cha	2005-07	Identifying cross-cultural differences of emoticons in computer...
Christine Newlon	2005-07	Exploring Support for Mega-Team Computer-Mediated Collab.
Piyanaat Taksaphan	2005-06	Strains on Human Short-Term Memory and Info Orientation...
Kristina Ledford	2005-09	The Effect of Telepresence on Flow Exper. within Non-Gaming...
Dipankar Roychow	2005-06	Enhancing Web Browser Search Histories: Design & Analysis...
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Heather Wiltse	2006-07	Everyday Use of Tech-Mediated Commun.: A Social Shaping Per...
Keith Beatty	2006-07	External cognition and problem solving: A comparison of desktop..
Mark Tarrant	2006-07	Perceived Visual Aesthetics of emotionally Evocative Homepages

***MS Graduate Students — General HCI Program Mentoring / Advising***

NAME	ROLE	PERIOD	GRAD. SEM.
Vinay Kashyap	Primary Advisor	2011-13	Spring
John Wheeler	Primary Advisor	2010-11	Spring
David Craske	Secondary Advisor	2010-12	Spring
Rupa Chatterji	Primary Advisor	2010-12	Spring
Christopher Lee	Primary Advisor	2009-10	Spring
Jon Duke	Secondary Advisor	2009-10	Spring
Joseph Coram	Secondary Advisor	2009-10	Fall
Dennis Mann	Secondary Advisor	2009-11	Spring
Diego F. Pulido	Secondary Advisor	2009-10	Spring
James Lyst	Secondary Advisor	2009-12	Spring
Kristen Ledford	Primary Advisor	2009-12	Sum.
Michael Downey	Primary Advisor	2009-12	Spring
Wade Mitchell	Secondary Advisor	2009-12	Spring
Edgardo Luzcando	Primary Advisor	2008-09	Spring
Howard Ho	Secondary Advisor	2008-11	Spring
Adam Burton	Secondary Advisor	2008-10	Spring
Avery Nelson	Primary Advisor	2008-10	Spring
Sandosh Vasudevan	Secondary Advisor	2008-10	Spring
Timothy Whalen	Secondary Advisor	2008-10	Fall
Kevin Szerszen	Secondary Advisor	2007-10	Fall
Christine Newlon	Secondary Advisor	2006-08	Spring
Heather Wiltse	Primary Advisor	2006-07	Spring
Keith Beatty	Primary Advisor	2006-08	Spring
Mark Tarrant	Primary Advisor	2006-07	Spring
Rob Elliott	Primary Advisor	2006-08	Spring
Stuart Ough	Secondary Advisor	2006-07	Spring
Dip Roychowdhury	Primary Advisor	2005-06	Spring
Maira Parveen	Primary Advisor	2005-06	Spring
Melynda Buher	Primary Advisor	2005-07	Spring
Mitchell Owen	Primary Advisor	2005-07	Spring
Piyanaat Taksaphan	Secondary Advisor	2005-06	Spring
Robert Green	Secondary Advisor	2005-06	Spring
Tim Altom	Primary Advisor	2005-06	Spring
Victor Tanner	Primary Advisor	2005-06	Spring
Young-Joo Cha	Primary Advisor	2005-07	Spring
Chatree Campiranon	Primary Advisor	2004-05	Spring
Ming-Liang Liu	Primary Advisor	2004-05	Spring
Tim Whalen	Secondary Advisor	2004-07	Spring

***Master's and Ph.D. Students — Special Projects Advising***

STUDENT	DATES	THESIS/PROJECT TITLE	STATUS
Tim Altom	2004-05	Using 3D Landscapes to Navigate Filespaces	MS
Melynda Buher	2004-05	Using 3D Landscapes to Navigate Filespaces	MS
Michael Downey	2004-05	Using 3D Landscapes to Navigate Filespaces	MS
Edgardo Luzcando	2004-05	Psychometric System Design for Online Data Capture	MS
Saima Zaidi	2005-06	MedPliance: Medication Compliance Device Design	Ph.D.
Gary Cravens	2005-06	MedPliance: Medication Compliance Device Design	Ph.D.

***Research Team Advising and Management (2013—2016)***

STUDENT	PROGRAM	TEAM ACTIVITY
Preethi Srinivas	HCI PhD Candidate	2013-2016
Yamini Karanam	HCI PhD Student	2014-2015
Milka Trajkova	HCI MS Student	2014-2015
Jamee Malan	BioHealth MS Student	2014-2015
Ryan Ahmed	HCI MS Student	2014-2015
Soumya Dash	HCI MS Student	2014-2015
Luiz Cavalcanti	HCI PhD Student	2015-2016
Nomaan Ahgharian	HCI MS Student	2015-2016
Andrew Thomas	HCI MS Student	2015-2016
Kate Ansah-Koi	HCI MS Student	2015-2016

***Curricula and Program Development (1998—Present)******Human-Computer Interaction Graduate Programs, IUSoIC, IUPUI***

As founding Director of the HCI Program (2003—present, *except 2012-13*), programmatic work included curriculum development and a full plan of study for each of the HCI graduate and undergraduate programs, noted below:

- Master of Science (36-cr.) HCI Graduate Program (2002—Present)
- Graduate Certificate (15-cr.) HCI Graduate Program (2007—Present)
- Ph.D. (90-cr.) HCI Track: Informatics & Computing (2008—Present)
- Undergrad Certif. (15-cr.) HCI Undergraduate Program (2010—Present)

***Media Arts and Science Programs, IUSoIC, IUPUI***

As Director of MAS Programs (2007–2009), work included curriculum development:

- Bachelor of Science (120-cr.) Media Arts and Science (2001—2002)
- Graduate Certificate (15-cr.) MAS Graduate program (2008—2009)
- Master of Science (36-cr.) MAS Graduate Program (2008—2009)

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## SERVICE

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### University Service

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#### *Departmental and School Committee Work*

YEARS	ROLE	COMMITTEE NAME / SCHOOL / UNIVERSITY
2016—17	Member	PhD Oversight Committee, UIC
2016—17	Member	Academic Affairs Committee, UIC
2015—17	Chair	Program Director's Committee, UIC
2015—17	Member	Dean's Department Head Committee, UIC
2015—16	Chair	Colloquia Committee, SoIC, IUPUI
2015—16	Chair	HCC Faculty Search and Screen Committee, SoIC, IUPUI
2014—16	Member	UG Informatics Curriculum committee, SoIC, IUPUI
2014—16	Member	HCC Faculty Search and Screen Committee, SoIC, IUPUI
2013—16	Member	HCC Faculty Search and Screen Committee, SoIC, IUPUI
2014—16	Member	Council of Undergraduate Committee—SoIC Curric. Develop.
2009—13	Chair	Council of Undergraduate Committee—SoIC Curric. Develop.
2009—13	Chair	Council of Undergraduate Committee – Exec Committee Chair
2008—09	Chair	Media Arts New Faculty Search and Screen Committee, SOIC, IUPUI
2008—09	Chair	HCI New Faculty Search and Screen Committee, SOIC, IUPUI
2008—09	Member	School Website Re—Design and Deploy Committee, SOIC, IUPUI
2008—09	Member	Graduate Programs Shaping Committee, SOIC, IUPUI
2008—09	Chair	Media Arts and Science Advisory Board, SOIC, IUPUI
2007—09	Chair	Graduate Curriculum Comm., Media Arts and Science, SoIC, IUPUI
2007—09	Chair	Graduate School Strategic Planning Comm., SOIC, IUPUI / IUB
2007—09	Chair	Undergrad. Curriculum Comm., Media Arts and Science, SoIC, IUPUI
2007—09	Chair	Media Arts and Science Advisory Board, SOIC, IUPUI
2007—08	Chair	Promotion and Tenure Committee, SOIC, IUPUI
2006—07	Member	New Media Curriculum Assessment Committee, IU SOIC, IUPUI
2003—04	Member	Faculty Search Committee, IU SOIC, IUPUI
2003—05	Member	Graduate Program Committee, IU SOIC, IUPUI
2002—03	Member	Curriculum Committee, Indiana University (IU) SOIC, IUPUI
2002—03	Member	Faculty Search Committee, IU SOIC, IUPUI
2002—03	Member	Library Review Committee, IU SOIC, IUPUI
2002—03	Member	Informatics Online Development Committee, IU SOIC, IUPUI
2002—03	Member	Graduate Program Committee, IU SOIC, IUPUI
2001—02	Member	Curriculum Committee, Chair, New Media, IU SOIC, IUPUI
2001—02	Member	Faculty Search Committee, New Media, IU SOIC, IUPUI
2001—02	Member	Technology Committee, New Media, IU SOIC, IUPUI
2001—02	Member	Undergraduate Program Committee, SOIC, IU



2000—01	Member	Science and Media Committee, School of Food Sciences, Purdue U.
1998—01	Member	Marketing and Com Comm, Dept. of Computer Graphics, Purdue U.
1998—01	Member	Faculty Search Committee, Dept. of Computer Graphics, Purdue U.
1998—01	Member	School of Technology International Programs Committee, Purdue U.

#### *University Committees and Boards*

2015—16	University Budgetary Affairs, IUPUI
2015—16	University Faculty Affairs, IUPUI
2008—09	Plater Senior Advisory Board (Focus: RISE Initiative)
2008—13	Solution Center Executive Board – IUPUI – Indianapolis Bus. Connection
2007—09	Executive Board Member (founding member), TASI –Trans. Active Safety Institute School of Engineering
2007—08	Graduate Affairs Committee, IUPUI
2004—05	University-Wide Technology Committee, IUPUI
2004—05	Fulbright Representative, IUPUI Campus
2004—	Grant Proposal Review Committee, IUPUI Office for Professional Dev.
2003—04	IUPUI Internal Grants Proposal Review Committee, Chair, IUPUI

#### *University Administrative / Leadership Councils and Committees*

2012—14	Vice Chancellor's Leadership Strategic Team for the American Council on Education's (ACE); Internationalization Laboratory, Sub-Committee on Curriculum Internationalization
2008—13	Chancellor's Academic Dean's Council
2008—13	Vice Chancellor's Academic Dean's Council
2008—13	Informatics and Computing Dean's Leadership Council
2008—13	Information Technology Governance and Service Committee

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## **Professional Service**

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### **Research Working Groups and Executive Boards**

2015—	Intensive Care Informatics, American Medical Informatics Association (AMIA)
2015—	Visual Analytics in Healthcare, AMIA
2014—15	Fulbright Scholarship Review Board (Russian Applicants)
2009—16	Transportation Active Safety Institute (TASI), Executive Board Member, Department of Electrical Engineering, School of Engineering, IUPUI

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### **Conference Administrative Service**

2011	HCI International Conference 2011, Orlando, FL, <b>Co-Chair</b> <u>Session Title:</u> Communication Issues and the User Experience: Branding, Content Design and Semiotics; <u>Thematic Area:</u> Design, User Experience, and Usability; <u>Session Co-Chairs:</u> Anthony Faiola, Indiana University SoIC, HCI Program; Davide Bolchini, Indiana University School of SoIC, HCI Program
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- 2011 HCI International Conference 2011, Orlando, FL, **Co-Chair**  
Session Title: Biomedical and Health Visualization HCI Design;  
Thematic Area: Ergonomics and Health Aspects of Work with Computers;  
Session Co-Chairs: Anthony Faiola, Indiana University SoIC, HCI Program; Taowei David Wang, University of Maryland, Department of Computer Science, HCI Lab
- 2011 HCI International Conference 2011, Orlando, FL, **Co-Chair**  
Session Title: Social Spaces for Virtual Gameplay and Learning – New Inquiries;  
Thematic Area: Online Communities and Social Computing;  
Session Co-Chairs: Anthony Faiola, Indiana University SoIC, HCI Program; Alexander Voiskounsky, Moscow State University, Department of Psychology, M.IN.D. Lab
- 2009 HCI International Conference 2009, San Diego, CA, **Co-Chair**  
Session Title: Usability for Bio and Health Informatics;  
Thematic Area: Ergonomics and Health Aspects of Work with Computers;  
Session Co-Chairs: Anthony Faiola, Indiana University SoIC, HCI Program; Davide Bolchini, Indiana University SoIC, HCI Program
- 2009 HCI International Conference 2009, San Diego, CA, **Co-Chair**  
Session Title: Online Gaming and Social Computing;  
Thematic Area: Online Communities and Social Computing;  
Session Co-Chairs: Anthony Faiola, Indiana University SoIC, HCI Program; Alexander Voiskounsky, Moscow State University, Department of Psychology, M.IN.D. Lab
- 2009 13<sup>th</sup> Inter. Conf. on Information Visualization, Barcelona, Spain, **Symposium Chair**  
Symposium Title: Visualization and Interaction Design;  
Session Co-Chairs: Anthony Faiola, Indiana University SoIC, Indianapolis; Dennis Groth, Indiana University SoIC, Bloomington
- 2008 14<sup>th</sup> Inter. Conf. on Information Visualization, London, UK, **Symposium Chair**  
Symposium Title: Visualization and Interaction Design;  
Session Co-Chairs: Anthony Faiola, Indiana University SoIC, Indianapolis; Dennis Groth, Indiana University SoIC, Bloomington, IN
- 2007 13<sup>th</sup> Inter. Conf. on Information Visualization, London, UK, **Symposium Chair**  
 Human-Computer Interaction Symposium;  
Symposium Title: Visualization and Interaction Design;  
Session Co-Chairs: Anthony Faiola, Indiana University SoIC, Indianapolis; Dennis Groth, Indiana University SoIC, Bloomington
- 2006 CATac'06 Cultural Attitudes Towards Tech/Comm., Tartu, Estonia, **Session Chair**  
Session Title: Politics, Media, and Technologies;  
Session Chair: Anthony Faiola, Indiana University SoIC, Indianapolis
- 2006 12<sup>th</sup> Inter. Conf. on Information Visualization, London, UK, **Symposium Chair**  
 Human-Computer Interaction Symposium;

Symposium Title: Visualization and Interaction Design;

Session Co-Chairs: Anthony Faiola, Indiana University SoIC, Indianapolis; Dennis Groth, Indiana University SoIC, Bloomington

2005 11<sup>th</sup> Inter. Conf. on Information Visualization, London, UK, **Symposium Chair**

Symposium Title: Visualization and Interaction Design;

Session Co-Chairs: Anthony Faiola, Indiana University SoIC, Indianapolis; Dennis Groth, Indiana University SoIC, Bloomington

2005 HCI International Conference 2005, Las Vegas, Nevada, **Co-Chair**

Session Title: HCI of Information Visualization: Research and Education in 2/3-Dimensional Domains;

Thematic Area: Human-Computer Interaction;

Session Chair: Anthony Faiola, Indiana University SoIC, HCI Program

2005 HCI International Conference 2005, Las Vegas, Nevada, **Co-Chair**

Session Title: Interaction Design Education and Research: Current and Future Trends;

Thematic Area: Human-Computer Interaction;

Session Chair: Anthony Faiola, Indiana University SoIC, HCI Program

2004 Humanizing Technology Colloquium, New Directions in the Humanities, Tuscany, Italy, **Session Chair**

Colloquium Title: Human-Computer Interaction,

Communication, and Co-Existence: A Blueprint for Humanizing Technology, Anthony Faiola, Indiana University SoIC, HCI Program

2003 Human-Computer Interaction International Conference 2003, Crete, Greece, **Session Chair**

Session Title: HCI Education—New Challenges, Shifts, and Issues;

Thematic Area: Human-Computer Interaction;

Session Chair: Anthony Faiola, Indiana University SoIC, HCI Program

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#### Conference Program Committee

2011 SeGAH 2011: 1st International Conference on Serious Games and Applications for Health.

2011 DUXU 2011: Design, User Experience, and Usability, HCI International Conference, Orlando, FL.

2009 HCI Symposium, 13th Annual International Conference on Information Visualization, Barcelona, Spain.

2009 Active Safety Symposium, Program Member (Sponsor: TASI - Transportation Active Safety Institute and Department of Electrical Engineering, School of Engineering and Technology, IUPUI), Designated IEEE Conference.

2008 HCI Symposium, 12th Annual International Conference on Information Visualization, Zurich, Switzerland.

- 2008 LCEA'09 Symposium - Lansdown Centre for Electronic Arts (Program Committee Member), Middlesex University, Middlesex, England.
- 2008-9 IDC 2009 - The 8th International Conference on Interaction Design for Children - In cooperation with ACM-SIGCHI (Program Committee Member), Polytechnic Institute of Milano, Italy.
- 2007 HCI Symposium, 11th Annual International Conference on Information Visualization, Zurich, Switzerland.
- 2006 HCI Symposium, 10th Annual International Conference on Information Visualization, London, England.
- 2005 HCI Symposium, 9th Annual International Conference on Information Visualization, London, England.
- 2004 HCI Symposium, 8th Annual International Conference on Information Visualization, London, England.
- 2004 ACM SIGCHI, Selection Committee, SIGCHI Distinguished Speakers List.

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**Conference Peer Reviewer (*Editor of some session papers*)**

- 2016 AMIA 2016: American Medical Informatics Association Symposium  
*Distinguished Reviewer Award*
- 2015 AMIA 2015: American Medical Informatics Association Symposium
- 2013 ACM CHI 2013: Computer Human Interaction: International Conference: One of a CHIInd
- 2011 SeGAH 2011: 1st International Conference on Serious Games and Applications for Health.
- 2011 HCI International Conference 2011, Orlando, FL. Communication Issues and the User Experience: Branding, Content Design and Semiotics (Thematic Area: Design, User Experience, and Usability)
- 2011 HCI International Conference 2011, Orlando, FL. Biomedical and Health Visualization HCI Design (Thematic Area: Ergonomics and Health Aspects of Work with Computers)
- 2011 HCI International Conference 2011, Orlando, FL. Social Spaces for Virtual Gameplay and Learning – New Inquiries (Thematic Area: Online Communities and Social Computing)
- 2010 4th International Conference on Pervasive Computing Technologies for Healthcare 2010, Munich, Germany, March 2010.
- 2009 HCI International Conference 2009, San Diego, CA. Usability for Bio and Health Informatics (Thematic Area: Ergonomics and Health Aspects of Work with Computers)

- 2009 HCI International Conference 2009, San Diego, CA. Online Gaming and Social Computing (Thematic Area: Online Communities and Social Computing)
- 2009 HCI Symposium (Co-Editor and Reviewer), 13th Annual International Conference on Information Visualization, Barcelona, Spain.
- 2009 LCEA'09 Symposium (Lansdown Centre for Electronic Arts) (Reviewer), Middlesex University, Middlesex, England
- 2008 HCI Symposium (Co-Editor and Reviewer), 12th Annual International Conference on Information Visualization, Zurich, Switzerland.
- 2007 Sixth Annual (ACM SIGCHI) Pre-ICIS HCI/MIS Workshop, Association for Information Systems, Montreal, Canada, Program Committee Member and Paper reviewer.
- 2007 HCI International Conference 2007, Beijing, China. Conference HCI Research in Culture-Driven Mediated Communication, Cognition and Recreation.
- 2007 HCI Symposium (Co-Editor and Reviewer), 11th Annual International Conference on Information Visualization, Zurich, Switzerland.
- 2007 HCI International Conference 2007, Beijing, China. Conference HCI Design Educational Research: Teaching Theories, Models, and Learning Outcomes.
- 2007 Human-Computer Interaction International Conference 2007, Beijing, China. Conference Human-Information Interaction Theories, Models, and Design Strategies.
- 2006 HCI Track of the 14th European Conference on Information Systems (ECIS). (Reviewer), Göteborg, Sweden. Organized by the IT University of Göteborg.
- 2006 Fifth Annual (ACM SIGCHI) Pre-ICIS HCI/MIS Workshop, Association for Information Systems, Milwaukee, Wisconsin, Program Committee Member.
- 2006 HCI Symposium (Co-Editor and Reviewer), 10th Annual International Conference on Information Visualization, London, England. Symposium Title: Visualization and Interaction Design.
- 2005 Fourth Annual (ACM SIGCHI) Pre-ICIS HCI/MIS Workshop, Association for Information Systems, Las Vegas, Program Committee Member.
- 2005 HCI Symposium (Editor and Reviewer), 9th Annual International Conference on Information Visualization, London, England.
- 2004 Third Annual (ACM SIGCHI) Pre-ICIS HCI/MIS Workshop, Association for Information Systems, Washington, D.C., Program Committee Member and Paper reviewer.
- 2004 HCI International Conference 2005, Las Vegas, Nevada. The Human-Computer Interaction of Information Visualization.
- 2004 HCI International Conference 2005, Las Vegas, Nevada. Interaction Design Education and Research.
- 2004 HCI Symposium (Editor and Reviewer), 8th Annual International Conference on Information Visualization, London, England.

- 2004 Humanizing Technology Colloquium, Tuscany, Italy. 2PndP International Conference on New Directions in the Humanities, Colloquium Title: Human-Computer Interaction, Communication, and Co-Existence: A Blueprint for Humanizing Technology.
- 2003 Space, Spatiality, and Technology Conference, Edinburgh, Scotland, Napier University School of Computing.
- 2003 HCI International '03, Parallel Session, HCI Education. Chief reviewer and editor of session papers.
- 2003 Second Annual (ACM SIGCHI) Pre-ICIS HCI/MIS Workshop, Association for Information Systems, Program Committee Member and Paper reviewer.

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#### **Journal and Book Peer Reviewer**

- 2016—Present Journal of Applied Clinical Informatics
- 2016—Present Journal of Biomedical Informatics
- 2015—Present Behavior Research Methods
- 2011—Present MIT Press
- 2009—Present Human-Computer Interaction Journal (Taylor and Francis Publishing)
- 2006—Present Interacting with Computers (Elsevier Publishing)
- 2003—Present Behavior and Information Technology (Taylor and Francis Publishing)
- 2003—Present Journal of Management Information Systems (M.E. Sharpe Publishing)

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#### **Special Service in the Graphic Arts and New Media**

- 2000 Graph Expo, Digital Printing Seminars and Workshops, Chicago
- 2000 Graphic Arts Edu. Seminars, Printing e-Commerce/Internet, Chicago
- 2000 Alfa Design & Printing, Review of current work, Moscow Russia
- 2000 Lersta Animation, Review of current work, St. Petersburg, Russia
- 2000 Amos PrePress House, Review of current work, St. Petersburg, Russia
- 1999 Graph Expo, Digital Printing Seminars and Workshops, Chicago
- 1998 Graph Expo, Digital Printing Seminars and Workshops, Chicago
- 1998 GATF/GAERF Teacher Conference, Chicago Tech. & Graphic Arts Issues
- 1998 Printers Industry of Am (PIA), Prof. Workshop on Standards Evaluation, Chicago

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## FINE ARTS & DESIGN

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### Refereed Designs—Cover Designs Reproduced in National Design Journals

1. Faiola, A. (1985). Personality. *Printing Industry of America Annual*.
2. Faiola, A. (1984). The earth. *PRINT, Print's Regional Design Annual*, 38(4), p. 166.
3. Faiola, A. (1984). Advertising. *Printing Industry of America Annual*.
4. Faiola, A. (1984). Management. *Printing Industry of America Annual*.
5. Faiola, A. (1983). Physical geology. *PRINT, Print's Regional Design Annual*, 37(4), p. 157
6. Faiola, A. (1983). Biology. *Communication Society of Columbus Annual*.

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### Creative Works

#### *Juried Art Exhibitions*

2013	Linus Galleries	Strength Exhibition, <i>Photo-Lithography</i> , Pasadena, CA
2011	University Museum	Alumni Exhibition, <i>Lithograph</i> , Albany, NY
2007	Austin State Art Gallery	National Prize Exhibition, <i>Lithograph</i> , Nacogdoches, TX
2006	Schultz Gallery	National Prize Exhibition, <i>Lithograph</i> , Cambridge, MA
2005	Ben Shahn Gallery	Juried Printmaking Exhibition, <i>Lithograph</i> , Wayne, NJ
2004	Masur Museum	Juried Competition, <i>Lithograph</i> , Monroe, LA
2003	ArtCentre Plano Gallery	National Juried Exhibition, <i>Lithograph</i> , Plano, TX
2003	Phillips Gallery	Invitational Print Exhibition, <i>Lithograph</i> , Sanibel, FL
1980	Finger Lakes CC Gallery	Two-Person Exhibition, <i>Installations</i> , Canandaigua, NY
1979	Ohio State Art Gallery	Ohio Five Exhibition, <i>Sculpture Paintings</i> , Columbus, OH
1977	Mt Holyoke Art Museum	Annual Print Exhibition, <i>Lithograph</i> , Mount Holyoke, MA

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### Art Collections

Ben Shahn Galleries, William Patterson University, Wayne, NJ, 2005.  
Museum of Fine Arts, State University of New York, Albany, NY, 1979.

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### Fine Arts and Design Graduate / Undergrad Assistantships

- 1982-83 The Ohio State University, *Graduate Teaching Associate*,  
Department of Industrial Design, Columbus, OH.  
○ **Primary Advisors:** Charles Wallschlaeger, Joesph Koncelik, and Reinhart Butter
- 1977-79 The Ohio State University, *Graduate Teaching/Research Associate*,  
Department of Fine Arts, Columbus, OH.  
○ **Primary Advisors:** Charles Massey and Sid Chafetz
- 1975-77 State University of New York at Albany, *Graduate Teaching Assistant*,  
Department of Fine Arts, NY.  
○ **Primary Advisors:** Thom O'Connor
- 1972-75 State University of New York at New Paltz, *Undergraduate Work-Study Assistant*,  
Department of Fine Arts, NY.  
○ **Primary Advisors:** Ben Wigfall and Murray Zimiles

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## APPENDIX A

### SUMMARY OF ADMINISTRATIVE ACCOMPLISHMENTS

As Executive Associate Dean  
Indiana University—School of Informatics & Computing  
Indiana University—Purdue University Indianapolis

(2008 to 2013)

#### *Student Enrollment*

Initiated and led to achieve target goals for attaining greater program growth. Final indicators after five years as EAD (2008–2013) show total enrollment at the following:

##### **Credit Hour Growth**

- Undergraduate 45%+
- Graduate 139%+

##### **Enrollment Growth**

- Undergraduate 6%+
- Graduate 70%+

##### **Graduate Application Growth**

- MS Programs 125%+
- Ph.D. Programs 20%+

#### *Student Services Management*

1. Led the effort to re-organize Student Services to better facilitate retention, recruitment, and overall program growth through re-constituting and re-structuring advising services; including working with the Associate Deans and Academic Advisors to provided increased quality of advising and career services; including new initiatives and additional efforts to:
  - Intensify collaboration with campus admissions, student life, and UCOL
  - Enhance overall efforts to maximize student enrollment, student retention, and overall student success
  - Coordinate with Academic Advising (and Student Services) on strategic initiatives that directly impact student success.
  - Goal-set with a mission of 100% placement after graduation (from our current 78%)
  - Host Informatics open houses and game tournaments to local high schools
  - Form an online education committee to direct what courses go online and how to move forward with the degree completion.
  - Create a support/Interest group for adult learners, including the creation of 8 week and weekend programs
  - Build stronger teacher-student bonding, even before enrollment, which contributes to student retention and long-term success.



2. Led investment of considerable resources to develop an effective and agile Student Services team (Academic Advising, Career, and Recruitment Services).
  - Retention rates slightly out performing other schools on the IUPUI campus.
  - Employment data places our students at about a 78% employment rate at the time of graduation, with an average salary of \$50K.<sup>1</sup>
3. Initiated a “Lunch with the Dean” series that took place two times per month, with the goal to allow students from all programs direct access to the dean’s office to voice their concerns, as well as a general discussion about program development and curricula, student rights and responsibilities, security issues, etc.

### *Student Outreach*

1. Initiated and led the discussion of the School’s Marketing/Communications Website Task Force, which was composed of faculty and staff. The goal was greater Internet presence. Outcomes per Web Analytics data show a 95% increase in the SoIC Website traffic over the last three years.
2. Created the position of Communications Manager and identified a new communications team that focused on the School’s redesigned website (extending our social media outreach), and a full range of inward and outward directed communications efforts toward students, prospective students, and parents.

### *Education / Learning and Research Labs*

1. Initiated and led the creation of the Media Arts Research and Learning Arcade (MARLA).
  - Funding: The creation of MARLA is the result of an Educational and Learning Environment Grant I was awarded. Based on an additional award (as co-author) from a MacArthur Foundation Grant for Gaming Education, faculty used MARLA to kick-off the first funded educational game project. The purpose of the lab was to serve as a learning incubator for innovative gaming education and game development.
  - Outcomes:
    - Established the first gaming-learning lab on the IUPUI campus, which facilitates undergraduate media arts gaming education, allowing students to learn and work collaboratively on serious and casual game design. Serious games include games that focus on content related to education, health, and other non-entertainment-centered gameplay.
    - Provided additional workspace to further strengthen graduate research in Media Arts and Science (MAS), Human-Computer Interaction (HCI), and Health Informatics (HI), as well as providing undergraduate students opportunities to engage in research with MS and Ph.D. students
    - Leveraged MARLA resources for faculty to develop an educational partnership with GenCon, the largest gaming conference in the US (allowing students and faculty to interact with key members of the gaming industry and participate in educational.
    - Initiated with Media Arts faculty in the creation of the Mobile Gaming Lab (MARLA2.0), including student and faculty collaboration on group projects in mobile game computing.
2. Initiated and co-led the creation of the User Simulation and Experience Research (USER) Lab for faculty and graduate students from HCI, MAS, and HI. Outcomes include:
  - Provided a computing sandbox for interdisciplinary faculty research and teaching.
  - Helped to facilitate collaboration by bringing together investigators from different disciplines such as health informatics and health gaming, human-computer interaction design and evaluation, new media and information visualization, and medicine and the rehabilitation sciences.
3. Led the task force, the Council of Undergraduate Education (CUE), to investigate a broad range of challenges related to the advancement of undergraduate education, including: program growth,

brand and identity / marketing, curriculum revitalization and course renewal, enrollment and retention, and course assessment. The mission of CUE was also to achieve compliance with school, university, state, and national educational standards, as well as establish goals for enrollment/retention, graduation rates, and overall quality control. (CUE was composed of one Executive Committee that oversaw six sub-committees aligned with different mandates.)

4. Led the Informatics undergraduate curriculum committee in a complete revision of the Informatics Curriculum, including new course design, revisions to core and required courses, greatly improving credit hour production for Informatics majors.
5. Initiated and co-led, with the Associate Dean of Administration, target standards and goals for improving the quality of course delivery and increasing accountability. Areas of focused work include:
  - Reviewing curriculum development and assessment processes to identify program challenges, as well as program building based on performance indicators.
  - Teaching productivity to improve credit hour production in undergraduate and graduate programs and providing courses that would interest non-Informatics majors.
  - Recruitment and retention to specify targeted program majors in terms of student quality

### ***Diversity and Inclusion***

Led in diversity and inclusion by holding strongly to priorities that include students of color, women, and international students, as well as a general need to increase underrepresented minorities in student enrollment and recruitment.

As of 2011, 36% of the student population was female, 16% of undergraduate students and 10% of graduate students were African-American and Hispanic.

Under my leadership, the following initiatives highlight those programs developed by myself and my faculty and staff during—to promote, support, and invest in an academic culture that celebrates diversity and inclusion:<sup>1</sup>

#### *Programs Directly Initiated and/or Led:*

1. **WiT** Women in Technology at IUPUI.
2. **SREB** Southern Regional Education Board – *State Doctoral Scholars Program*.  
 Aim: To increase African American faculty on US campuses.  
 Means: Mentoring Programs and Annual Conferences.

#### *Programs Co-Led:*

3. **STARS** Students and Technology in Academia, Research, and Services.
4. **GHC** Grace Hopper Celebration of Women in Computing.
5. **TAPIA** The Richard Tapia Celebration of Diversity.
6. **LYP** Latino Youth Project: Exploring ways SoIC can work with the Latino Youth.

### ***International Education***

International education has played an important role in my personal experience as a student (as noted above) and as a faculty member, having lectured extensively throughout Europe; primarily and regularly in Russia. Moreover, as a three-time Fulbright Scholar to Russia in teaching and research, I understand the importance of cultivating international experiences. Involvement in several international programs in SoIC has helped to promote student exchange, as well as research initiatives. Two such administrative accomplishments include:

1. Co-led efforts to secure international opportunities by offering new abroad programs that include courses taught in Paros, Greece and Beijing, China.

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<sup>1</sup> In addition to the three groups identified above, persons from a broad range of cultural/sexual/human orientations, backgrounds, and viewpoints were recognized and celebrated both within my administration and at IUPUI at-large.

2. Led an international initiative (referred to as 2+2), with Sun Yat-Sen University (SYSU) in China that includes joint-degree programs with the SYSU School of Communication and Design and School of Information Management.
3. Sub-Committee member of the Internationalization Initiative of the Vice Chancellor's 2013 campus strategic planning process.

### ***Research***

Working closely with Associate Dean for Research and Graduate Studies, the following accomplishments were the most outstanding:

1. Provided increasing support for the Associate Dean for Research to initiate growth in research collaboration and grants:
  - At the end of 2008, faculty were listed as collaborators on 3 proposals (totaling \$849,000) and by the end of 2010 that number grew to 27 (proposals totaling \$76M - a total of \$113M overall). (Awarded \$22.7M overall; our portion was \$1.4M)
  - The last 4 years yielded \$2.2 in awarded grants between Informatics and the Center for Computational Biology and Bioinformatics.
2. Led the hire of new key research faculty, including:
  - Two faculty in MAS and HI for the school's Games for Health research initiative, a cross-disciplinary partnership between Health Informatics and Media Arts and Science.
  - Two tier-one research junior faculty in Bioinformatics to strengthen our research initiative in bioinformatics and computational biology.
  - Two tier-one research faculty in HCI (human-centered computing) with national reputations.

### ***Fundraising***

Although the Indiana University SoIC began in 2000, a strategic plan for fundraising for the IUPUI campus was not initiated until shortly after my appointment as EAD in 2008, which aligned with the hiring of our Assistant Dean for Development and Alumni Relations (ADD). His arrival substantially escalated our campaign planning and management. As such, I enthusiastically worked in tandem with the ADD in fundraising to reach our targeted goal of raising \$1M, as part of the IU Impact Campaign. Additional strategic efforts of the campaign included providing support to the School's ADD to: **(1)** Encouraged school staff and faculty to serve as volunteers to lead the campaign and **(2)** Worked with our School's Developmental Officer to organize our Campaign Executive Committee comprised of high-powered leaders from each of the school's main constituencies, including community leaders, alumni, faculty & staff, and other friends in greater Indianapolis.

### ***Community Partnerships***

SoIC's MAS faculty continue to work with UG students to deliver a broad range of media projects to the Indianapolis community. SoIC's reputation as a supporter of civic work for both profit and non-profit entities has opened up internship and full-time employment for our students.

1. Worked with MAS faculty to facilitate the growth of dynamic collaborations with local businesses, as well as educational and industry leaders to spawn mutual opportunities for students. Key past faculty projects include:
  - Caregivers Inc.: This project and its subsidiary company CareGivers2 provided students with real-world health IT opportunities. Moreover, they seek top-talent students to become part of an internship team to assist with the development of a comprehensive suite of web and social media technologies.
  - Eiteljorg Museum: This project was the re-engineering of the original Mihtsoseenioki Project as an online educational application for K-12 Schools.

- Indiana State Museum: Two projects for the museum provided a broad range of experience in media that will enhance their portfolio for future employment. Projects include: The 92-County Walk, an interactive map of the 92 Indiana counties and specific historical highlights, and the Angel Mounds project, a virtual walkthrough system of their archeological site.
2. Worked with MAS faculty to initiate an impressive partnership with GenCon, the original, longest-running, best-attended gaming convention in the world. The relationship includes student-centered activities that allow MAS students increased access to the gaming industry once they graduate, as well as advanced skills in gaming.

### *Campus Partnerships*

Initiated the building of strong and sustainable partnerships across Indiana University and Purdue University, Indianapolis campus which fostered wide collaboration in teaching and research.

Accomplishments include:

1. Initiated and led collaborative discussions with the Herron School of Art and Design to integrate Herron design courses into the revised Media Arts and Science undergraduate foundation program; and promote other areas of program commonality and student exchange in graduate programs related to design, media arts, and human-computer interaction
2. Led a collaborative partnership with the School of Engineering and Technology as a co-author of the awarded Transportation Active Safety Institute (TASI) Signature Center proposal; while serving on the TASI Executive Advisory Board
3. Co-led a collaborative partnership with the School of Science (Dept. of Computer Science) in course revisions and a renewed mission to advance our relationship in course development related to the Informatics and MAS undergraduate programs
4. Initiated the hiring of numerous faculty with joint appointments between Informatics and the School of Medicine, as well as the promotion of multiple joint research projects
5. Led a collaborative partnership with the School of Nursing by providing HCI and usability engineering support to Health Informatics applied research projects and through partnering in co-authored grants, and providing HCI PhD students who are working directly on School of Nursing and Health Informatics funded projects
6. Led an early discussion for collaboration with the Regenstrief Institute; with Regenstrief Fellows to focus on supporting usability engineering studies to improve health information technologies and making available to our faculty health records data for health informatics research

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## APPENDIX A

### INDUSTRIAL AND GRAPHIC DESIGN POSITIONS

1979 to 1998

The following list provides a brief overview of positions held before entering into academia in 1998 at Purdue University. On request, details can be provided about the responsibilities of each position.

- 1991-98 Assist. Director, LME Publications & Humanitarian Group, Moscow / St. Petersburg, Russia
- 1986-91 Art Director, Crown Communications: Design/Diversified Media, Columbus, OH
- 1985-86 Art Director, Frigidaire—WhiteWestinghouse, Corp. Advertising, Columbus, OH
- 1982-85 Senior Designer, Merrill Publishing (A Bell+Howell Co.), Columbus, OH
- 1980-82 Design Coordinator, Bohem Print/Publishing Corporation, Columbus, OH
- 1979-80 Advertising Coordinator, Shelly Berman Communicators, Columbus, OH

