CURRICULUM VITAE
ANTHONY FAIOLA

Business Address: University of Cincinnati, College of Nursing, Procter Hall, 310, 3110 Vine St., Cincinnati, OH 45219
Home Address: 1742 Cottontail Dr., Milford, OH 45150
Contact: **Faculty Profile** • **Email**: Anthony.Faiola@uc.edu • **Cell**: (317)373-7630 • **Office**: (513) 558-5614

FACULTY & ADMINISTRATIVE APPOINTMENTS

UNIVERSITY OF CINCINNATI (UC), College of Nursing
- Full Professor, Department of Population Health — 2024—
- Research Faculty Affiliations / Memberships: — 2024—
  - UC Cancer Center
  - UC Brain Tumor Center, Gardner Neuroscience Institute
  - UC Cancer Center Institutional Research Grant Committee
  - La Sapienza University, Department of Psychology (Div. of Neuropsychology), Rome, Italy

UNIVERSITY OF KENTUCKY (UK), College of Health Sciences
- Full Professor, Department of Health and Clinical Sciences — 2020-24
- Associate Dean, Research and Scholarship, College of Health Sciences — 2020-21
- Research Faculty Affiliations / Memberships: — 2020-24
  - UK Markey Cancer Center, Prevention and Control Research Program
  - College of Engineering, Department of Biomedical Engineering (Joint Appointment)
  - College of Medicine: Alliance Initiative for mHealth Technology
  - College of Design, Department of Industrial/Product Design (Faculty Associate)
  - Biomedical Informatics Institute (Steering Committee)
  - Human Development Institute (Center on Disabilities)

UNIVERSITY OF ILLINOIS—CHICAGO, College of Applied Health Sciences
- Full Professor, Department of Biomedical and Health Information Sciences — 2016-20
- Chair and Head, Department of Biomedical and Health Information Sciences — 2016-20
- Joint Appointment, College of Engineering, Department of Computer Science — 2016-20
- Interim Director, PhD Program, Biomedical and Health Informatics — 2019-20

INDIANA UNIVERSITY—INDIANAPOLIS, Luddy School of Informatics, Computing, & Engineering[1]
- Associate Professor, Department of Human-Centered Computing — 2001-16
- Founding Director, Human–Computer Interaction, Dept. of Human-Centered Computing — 2002-14
- Director, Media Arts and Sciences — 2007-09
- Executive Associate Dean—Chief Administrating Officer on the Indianapolis campus — 2008-13
- Director, Informatics — 2011-13

PURDUE UNIVERSITY—WEST LAFAYETTE, School of Applied and Creative Computing
- Assistant Professor, Department of Computer Graphics Technology — 1998-01
- Fulbright Scholar, St. Petersburg State University of Information Technology, Russia — 1999-00

EDUCATION

Ph.D.	Purdue University, School of Communication, Communication Studies, W. Lafayette, IN.[2]	2005
M.A.	The Ohio State University, College of Arts & Sciences, Industrial Design, Columbus, OH.[3]	1984
M.F.A.	The Ohio State University, College of Arts & Sciences, Fine Arts, Columbus, OH.	1979
M.A.	University at Albany (SUNY), N.Y., College of Arts & Sciences, Fine Arts, Albany, NY.	1977
B.F.A.	SUNY New Paltz, NY, School of Fine and Performing Arts, Fine Arts, New Paltz, NY.	1975

Certificates[4]
- Harvard University, Division of Continuing Education, Design Thinking Workshop, Cambridge, MA. — 2017
- Institute of Design, Illinois Institute of Technology, Design Thinking Workshop, Chicago, IL. — 2017
- Assoc. for Advancement of Medical Instrumentation, Human Factors of Med. Devices (FDA), Minn., MN.[5] — 2010

ACADEMIC HIGHLIGHTS

RESEARCH		TEACHING	
PUBLICATIONS & PRESENTATIONS		45	PhD, MS, & UG Courses Taught
138	Journals, Proceedings, Abstracts, Posters—*Referred*	24	PhD & MS Dissertation/Thesis Advised
126	Keynotes, Presentations—*Referred/Invited*	62	MS Capstone & Final Project Advised
19	Book Chapters, Books, & Educational Workbooks	44	Faiola Research Team Members (2013-26)
GRANTS & CONTRACTS		**SERVICE**	
$4,099,243	Active Grants (External/Internal Funding)	53	Professional Conference Admin/Services
$3,554,000	Pending & Forthcoming (Potential) Funding	10	University-Wide Committees
$9,692,367	Total Current/Past Awarded External Grants	5	University Administrative Leadership Roles
$192,620	Past Internal Grants	19	Departmental Committees: Chair/Member
Google Scholar: 2687 Citations / **24** h-index / **44** i10 index		**PRODUCT INNOVATION LINKS**	
Pubs Data Links: myNCBI / PubMed / DBLP-CS-Bib		**Press Release:** FamCare+, **Patents:** See Patent List	

JOURNAL & CONFERENCE SPECIAL ISSUE EDITOR & REVIEWER

2025—26   MDPI Healthcare, Journal Special Issue Editor: Virtual and Augmented Reality in Therapeutic Medicine.

2010   4th International Conference on Pervasive Computing Technology for Healthcare, Munich, Germany.

2011   1st International Conference on Serious Games and Applications for Health, Braga, Portugal.

2011   Human-Computer Interaction—Inter. Conf. on Biomedical and Health Visualization Design, Orlando, FL.

JOURNAL REVIEWER

2025—Present	MDPI Healthcare	2015	Behavior Research Methods
2025—Present	J of Medical Extended Reality	2015	American Medical Informatics Assoc Symp
2023—Present	Public Health (BioMed Central)	2011	MIT Press
2017—Present	Amer. Medical Informatics Assoc.	2009	Human-Computer Interaction Journal
2016—Present	J of Applied Clinical Informatics	2006	Interacting with Computers
2016—Present	J of Biomedical Informatics	2003	Behavior and Information Technology

ACADEMIC WORKING GROUPS AND REVIEW BOARDS

2019   Agency for Healthcare Research & Quality, U.S. Dept. of Health & Human Services

2015-16   American Medical Informatics Association, Intensive Care Informatics

2014-16   Fulbright Scholarship Review Board

PROFESSIONAL ORGANIZATIONS

2025—	American Medical Extended Reality Association	AMXRA
2025—	Alzheimer's Assoc. Society to Advance Research/Treatment, Tech & Dementia Group	ISTAART
2017—	Center for Health Design	CHD
2017—20	American Society for Healthcare Engineering	ASHE
2017—20	Society for Participatory Medicine	SPM
2016—20	American Congress of Rehabilitation Medicine	ACRM
2014—	American Medical Informatics Association	AMIA
2002—24	Industrial Designers Society of America (Professional Member)	IDSA
2001—17	Association of Computing Machinery—Special Interest Group	ACM
1999—10	Fulbright Association Fellow	

RECENT SIGNIFICANT PRESENTATIONS—2025

- **Title:** *AI-Powered VR Therapeutic Medicine for Patients with Cognitive Impairment: Increasing Synaptic Plasticity through Patient Real-Time Performance Tracking and Game Modulation,* Invited Panel, AI in Healthcare 2025 Summit, 1918 Innovation Lab, U of Cincinnati.

- **Title:** *The Synergetic Effects of Virtual Reality Immersion and Selective Attention Therapy for Brain Cancer Patients with Mild Cognitive Impairment*, U of Cincinnati, Gardner Neuroscience Institute Brain Tumor Symposium, U of Cincinnati.

- **Title:** *AI-Powered VR as In-Home Interventional Treatment for Cancer and Dementia Patients with Mild Cognitive Impairment: Maximizing Frontoparietal Network Stimulation through Immersion, Selective Attention Therapy, and Non-Player Character Modelling.* Sapienza University, Rome, Italy, Department of Psychology (Neuropsychology)

RESEARCH

BRIEF RESEARCH STATEMENT

My research lies at the intersection of biomedical informatics and human-centered computing, where I leverage the medical sciences, social/cognitive sciences, human factors, and usability science to develop, test, and clinically study the effects of digital health solutions with targeted patient populations, particularly, cancer, dementia, and stroke. My formative education, coupled with acquired cross-disciplinary knowledge and research methods, has enabled me to map a progressive line of inquiry with increasing focus and innovation. Since 2006, the aim of my translational research has been to generate new knowledge and novel digital health interventions that have a direct impact on the diagnostic and therapeutic treatment of patients with a range of diseases. **In sum, my current research falls within the broader domains of (1) Digital Health Solutions and (2) Health Behavior.**

Digital health, as my primary research focus, includes three emerging health information technologies (HIT) with their respective patient populations and interdisciplinary methods. This research includes collaboration with physicians, nurses, biomedical and mechanical engineers, biochemists, biomedical informaticians, and medical researchers who share my passion and focus on several diseases and health conditions. The three HITs include: Virtual/Mixed Reality Therapeutic Medicine (VRx), Diagnostic Biosensors, and Mobile Health (mHealth).*

*See my extended Research Statement for details, including current and forthcoming projects and funding.

GRANTS & CONTRACTS

ACTIVE GRANTS: (EXTERNAL & INTERNAL)				
GRANTING AGENCY & PROJECT TITLE	**ROLE / EFFORT**	**AMOUNT**	**DATE**	**COLLABORATORS**
AGENCY: NIH R01 **AREA**: National Heart, Lung, & Blood Institute **TITLE**: Hand-held Smart Sensor for Detecting Cystic Fibrosis Pulmonary Exacerbations **AWARD ID#/TYPE**: 1R01HL177812-01	**Co-I Site PI[6] Yr. 1: 7.79%** **ACTIVE**	$599,243 (3 Yrs.)	9/2024 8/2027	**PIs:** M. Agarwal, (PI), Indiana U.; PIs: D. Sanders, S. Cao, M. Woollam, Indiana U., College of Medicine, IU Health
AGENCY: American Cancer Society **AREA**: Diagnostic Biosensors **TITLE**: Canine-inspired Identification and Analysis of Volatile Organic Biomarkers of Prostate Cancer using Portable GC-MS & Develop, of a Hand-held Nanosensor System. **AWARD ID#/TYPE**: Team-23-1076327-01-PASD	**Team Principle: Site PI 15%[7]** **ACTIVE**	$1.2M (5 Yrs.)	1/2024-12/2028	**PIs:** Drs. Mangilal Agarwal, PhD, Purdue U. & Mark Woollam, Indiana U., College of Medicine, IU Health
AGENCY: Merck Foundation **AREA**: Alliance for Equity **TITLE**: Comprehensive Connected Cancer Care (C4) **AWARD ID#/TYPE**: 1000400609	**Co-I 7%** **ACTIVE**	$2M (5 Yrs.)	7/2022-6/2027	**PIs:** Hull, T. Mullett, M. Chih, B. Shelton, UK, Markey Cancer Center
AGENCY: University of Cincinnati Cancer Center **AREA**: Cancer Survivorship **TITLE**: Measuring the Feasibility, Acceptability and Effect of a VR Cognitive Training Intervention for Brain Cancer Survivors with Cancer-related Cognitive Impairment	**PI 10%** **ACTIVE**	$50K (2 Yr.)	2025-2027	**Co-Is:** Drs, Yogendran, Shatz, Morrison, & Lambert (Colleges of Medicine and Nursing)
AGENCY: UC Gardner Neuroscience Institute **TITLE**: Measuring the Feasibility, Acceptability, and Efficacy of an AI-Powered In-Home Virtual Reality Cognitive Therapy Intervention (VR-CRT) for Early Alzheimer's Patients with Mild Cognitive Impairment	**PI 25%** **ACTIVE**	$50K (1 Yrs.)	3/2026-2/2027	**Co-Is:** Dr. Shatz, College of Medicine, U of Cincinnati, Gardner Neuroscience Institute
AGENCY: Indiana University Health Values Grant, **AREA**: IU Health - Alzheimer's/Dementia **TITLE**: Virtual Reality Cognitive Intervention for Critically Ill Delirium Survivors (VR-CRT Intervention)	**Consultant ACTIVE**	$200K	7/2025-6/2026	**PIs: S. Khan, MD,** Indiana U. School of Medicine and the Regenstrief Institute.
				***Total Active Funding*: $4,099,243**

GRANTS PENDING				
GRANTING AGENCY, FOA, & TITLE	**ROLE/EFFORT**	**AMOUNT**	**DATE**	**COLLABORATORS**
AGENCY: American Cancer Society **TITLE:** Measuring the feasibility, acceptability, and fidelity of intervention delivery for a virtual-reality game cognitive training platform for breast cancer patient survivors at risk for mild cognitive impairment **AWARD ID#/TYPE:** Discovery Boost Grant	**PI** **20%** **PENDING**	$297K	7/2025-6/2027	**Co-Is:** R. Shatz, M. Charif, E. Shaughnessy, S. Rai, C. Morrison, Colleges of Medicine and Nursing, University of Cincinnati
AGENCY: Sapienza University, Office of Research, Rome, Italy **TITLE:** Measuring cognitive performance among post-stroke patients: A pilot study. Lectures: Digital health solution methods and innovation **AWARD ID#/TYPE:** Sr. Research Fellow	**Co-PI** **100%** **PENDING**	$7K	3/2026-4/2026	**PI: Marco Iosa**, Dept. of Neuropsychology, Sapienza University of Rome.
AGENCY: NIH/NIA **TITLE:** NeuroVirt: A Virtual Reality Intervention for Fall Prevention and Mental Health Among Older Adults with Mild Cognitive Impairment **AWARD ID#/TYPE:** R21, Exploratory Alzheimer's/Dementias, PAR-22-094	**Consultant** **PENDING**	$275K	4/2026-3/2028	**PI:** Junhyoung Kim, Dept. of Health Behavior, School of Public Health, Texas A&M U., College
				***Pending*: $579,000**

GRANTS IN PROGRESS				
GRANTING AGENCY, FOA, & TITLE	**ROLE/EFFORT**	**AMOUNT**	**DATE**	**COLLABORATORS**
AGENCY: NIH (NIA or NIMH) **TITLE:** AI-Powered In-Home VR Game Therapy to Improve AD/ADRD Patient Cognitive Function **AWARD TYPE:** NIH, R03, Small Research Grant Program for the Next Generation of Researchers in AD/ADRD Research	**CoPI** **20%** **IN PROGRESS** **(Forthcoming)**	$200K (2 Yrs.)	To be Submitted: **June 2026**	**Co-Is:** Co-PI: Dr. K. Cohen, Dr. Shatz, College of Medicine, U of Cincinnati, Dr. S. Kahn, IU School of Medicine, Indianapolis
AGENCY: NIH (NIA or NIMH) **TITLE:** Investigating the feasibility and efficacy of a family-centered mobile app to reduce depression and anxiety of families of cancer patients from rural communities **AWARD TYPE:** R21 NIH Exploratory/Develop. Research Project Grant	**CoPI** **20%** **IN PROGRESS** **(Forthcoming)**	$275K (2 Yrs.)	To be Submitted: **June 2026**	**Co-Is:** Co-PI: Dr. T. Bakas (tentative). Other Co-Is TBD
AGENCY: NIH/NIMH **TITLE:** Measuring the feasibility, acceptability, and fidelity of intervention delivery for VR cognitive gaming among older adults at risk for ICU-acquired mild cognitive impairment (Alzheimer's/ dementias effect on pain, anxiety, delirium). **AWARD TYPE:** R01 NIH (NIA or NIMH) Research Project Grant (Experimental Studies	**CoPI** **10%**[8] **IN PROGRESS** **(Forthcoming)**	$2.5M (5 Yrs.)	To be Submitted: **Fall 2026**	**PIs: B. Khan, & S. Khan**, Indiana University School of Medicine / Regenstrief Institute.
				***In Progress*: $579,000**

RECENTLY COMPLETED PILOT STUDY GRANTS:
(FOR PRELIMINARY DATA)

GRANTING AGENCY & PROJECT TITLE	ROLE / EFFORT	AMOUNT	DATE	COLLABORATORS
AGENCY: Markey Cancer Center, University of Kentucky **AREA**: Mobile Health in Cancer Care, **LINK** **TITLE:** Addressing the mental health disparities of families of cancer patients from rural Kentucky: Investigating the efficacy to reduce mental trauma using FamCare. **AWARD ID#:** University of Kentucky Markey Cancer Center Community-Engaged Partnership Planning Grant, #3048115742	**PI—20%** **Ended: 8/14/24** *Internal Funding* ***(Clinical Pilot Study for Preliminary Data)***	$10K (1 Yr.) *With 1 Yr. Extension*	2022-2024	**Co-Is:** Drs. Hao and Munker, Professors of Medicine, College of Medicine, Div. Oncology
AGENCY: Center for Computational and Translational Sciences, University of Kentucky **AREA**: Digital Solutions **TITLE:** A health game intervention for brain cancer patients suffering from mild cognitive impairment: A pilot study **AWARD ID#/TYPE:** Pilot Grant	**PI—20%** **Ended: 8/14/24** *Internal Funding* ***(Clinical Pilot Study for Preliminary Data)***	$8K (1 Yr.) *With 1 Yr. Extension*	2022-2024	**Co-Is:** P. Meulenbroek, Com Sciences and Disorders; J. Villano, College of Medicine, Div. Oncology
				Total Active Funding: **$18,000**

PRIOR EXTERNAL GRANTS & CONTRACTS

GRANTING AGENCY & PROJECT TITLE	ROLE / EFFORT	AMOUNT	DATE	COLLABORATORS
AGENCY: USDA **AREA**: National Institute of Food & Agriculture **TITLE:** Children Eating Well (CHEW) Smartphone Application for WIC Families. **AWARD ID#/TYPE:** 1000100537. **Grant Site**	**Co-PI—10%[1]**	$2,524,922 (5 Yrs.)	2017-2024	**PI:** P. Hull, UK Medicine (Project Dir.); **Co-PI:** S. Mulvaney, Vanderbilt U.
Agency: National Institute on Disability, Independent Living, and Rehabilitation Research **AREA**: Advanced Rehab. Research Training Program) Dept. of Health & Human Services, Admin for Community Living. **TITLE:** Advanced Training in Translational and Community-Engaged Scholarship to Improve Community Living & Participation for People with Disabilities **AWARD ID#/TYPE:** 311122. **Grant Site**	**CoPI—5%** Multiple PIs (*Funding contract ended once CoPI left UIC*)	$999,995 (5 Yrs.)	2020-2025	**CoPIs: Tamar Heller,** Dept. of Intellectual Disability & Human Develop.; **Yolanda Balcazar,** Dept. of Occupational Therapy, **Angela Young,** Dept of Kinesiol & Nutrition
AGENCY: **Agency for Healthcare Research & Quality Site Link** **AREA**: Health Systems **TITLE:** An Etiology for Medication Ordering Errors in CPOE Systems **AWARD ID#/TYPE:** **R21 HS25443-02**	**Site PI—10%**	$297,108 (2 Yrs.)	2018-2020	**PI: Joanna Abraham, PhD,** Washington University (School of Medicine)
AGENCY: **NSF** **AREA**: Smart & Connected Health	**Site PI 30%**	$738,311 (3 Yrs.+ 1 Yr. no-	2015-2019	**PIs: Mangilal Agarwal**, PhD (Contact PI), **Peter Roach, MD**; **Sudhir**

TITLE: Canine-Inspired Smart Sensor for Detecting Hypoglycemia from Human Breath[9][10] **AWARD ID#/TYPE: 1502310**		cost extension)		**Shrestha, PhD,** Purdue U.
AGENCY: King Saud Bin Abdulaziz University for Health Sciences, Dean's Office **AREA**: Health Informatics **TITLE**: Health Information Management Curriculum Licensing **AWARD ID#/TYPE: Program**	**Contract** 100%	$450,000	2017-2018	**Contractors: Drs. Salamah & Alshammari,** College of Public Health & Health Informatics, Riyadh, Saudi Arabia
AGENCY: MacArthur Foundation Grant **AREA**: Humanities, Arts, Science, and Technology Alliance / Collaboratory Grant **TITLE**: Creatures Classified: An exploration of cataloging creatures across the galaxy **AWARD ID#/TYPE**: 08-91858-000-HCD	**Grant Director** (PI Admin. Oversight) **2%**	$40,000 1 Yr.	2010-2012	**PIs: Mathew Powers, MFA, Clint Koch, MA, Jennifer Stewart, MS,** IU School of Informatics and Computing
AGENCY: U.S. Dept. of Veterans Affairs **AREA**: Health Services Research and Development **TITLE**: Pre-Implementation of a Decision Support Tool for Improving Patient Handoff **AWARD ID#/TYPE: RRP 06-156**	**Contract** **5%**	$6,800 1 Yr.	2006	**PI: Bradley Doebbeling, MD MSc & Mindy Flanagan PhD,** Richard L. Roudebush VA Medical Center, Indianapolis, IN
AGENCY: Clarian Health **AREA**: Diabetes Patient Education **TITLE**: Computerized Education to Prevent Hypoglycemia When Driving **AWARD ID#/TYPE**: VFE-183	**PI** **15%**	$79,841 2 Yrs.	2007-09	**Co-PIs: Donald Orr , MD,** IU School of Medicine; **Joseph DeFazio, PhD,** IU School of Informatics & Computing
AGENCY: Walther Cancer Foundation **AREA**: Health Systems **TITLE**: A Web-Based System to Support Family Caregiving for Cancer Patients **AWARD ID#/TYPE**: 601-3200-00-0002	**Co-PI** **8.3%**	$396,147 2 Yrs.	2009-2011	**PI: Anna McDaniel,** IU School of Nursing)
				Total Funding: **$5,533,124**

PRIOR INTERNAL GRANTS FOR RESEARCH, TRAVEL, AND TEACHING EXCELLENCE				
GRANTING AGENCY & TITLE	**ROLE / EFFORT**	**AMOUNT**	**DATE**	**COLLABORATORS**
Digital Health Informatics				
AGENCY: Indiana University Solution Center Grant **TITLE:** Medical Information Visualization Assistant – System Design (Phase 1-4 Funding)	**PI** 100%	$73,600	2008-2014	**Co-PI: Simon Hillier, MD**, IU School of Medicine
AGENCY: Indiana University Research Support Grant – Seed Funding **TITLE:** Using Interactive Games to Improve Treatment Adherence in Children with Type 1 Diabetes	**Co-PI** 10%	$29,000	2009	**PI: Hadi Kharrazi,** IU Schools of Informatics and Computing
AGENCY: Indiana University Research Support Grant – Seed Funding **TITLE:** Using Interactive Frameworks to Enhance Treatment Adherence in Type 1 Diabetes	**Co-PI** 10%	$15,000	2009	**PI: Hadi Kharrazi,** IU Schools of Informatics and Computing

AGENCY: IU Research Support Funds Grant Application TITLE: Support for Purchase of BioPac Psycho-physiological Measuring Equipment	PI 25%	$13,000	2010	**Co-PI: Mark Pfaff**, PhD, IU Schools of Informatics and Computing
AGENCY: Purdue Research Summer Grant TITLE: Qualifying Digital Color Targets for Skills and Knowledge Standard	PI 100%	$5000	2000	Graphic Arts Tech. Found. Pitts., PA
Human-Centered Computing Education				
AGENCY: IU Learning Environments Grant TITLE: Tablet PC Presentation for Diabetic Patients: Diabetes Prevention and Control	Consultant 100%	$25,000	2010	**PI: David G. Marrero, MD and Paris Roach, MD**, IU School of Medicine,
AGENCY: IU Learning Environments Grant TITLE: Media Arts Research Learning Arcade (MARLA): A Research/Learning Game Community Lab - **LINK**	Co-PI 15%	$25,000	2009-10	**PI: Mathew Powers, MFA,** Media Arts & Science Faculty
Research Travel Funding				
AGENCY: **IU Research Grant, Part 1 and 2** Title: Russian and American Cross-Cultural Study of Hypermedia Design & Accessibility	PI 100%	$3,070	2002-03	SoIC & Institute of Tech., Optical Design & Engineer., St. Petersburg, Russia.
AGENCY: IU Office of International Prog. Overseas Conf. Fund TITLE: 12th International Conf on Information Visualization: HCI Symposium	PI 100%	$600	2008	IU Schools of Informatics and Computing
AGENCY: IU International Travel Grant TITLE: CATac'06 Cultural Attitudes Towards Technology and Communication	PI 100%	$600	2006	Estonia England
AGENCY: **IU International Travel Grant** TITLE: Study of Cross-cultural Behavior of International Online Gamers	PI 100%	$2000	2006	Moscow State University, Russia
AGENCY: **IU International Travel Grant** TITLE: The Copernican shift: HCI education and the design enterprise	PI 100%	$750	2003	Crete, Greece
				Total Funding: **$192,620**

FULBRIGHT SCHOLARSHIPS				
GRANTING AGENCY & TITLE	ROLE / EFFORT	AMOUNT	DATE	**COLLABORATORS**
AGENCY: **Fulbright U.S. Scholar Program**. Bureau of Educational and Cultural Affairs (U.S. Dept. of State). **Senior Specialist Lectures**. TITLE: Communication & Online Publishing Tech.	PI 100%	$6,000	2003	Moscow State University of the Printing Arts, Russia
AGENCY: **Fulbright U.S. Scholar Program**. Bureau of Educational and Cultural Affairs (U.S. Dept. of State). **Senior Specialist Lecture**. TITLE: Communication & eBook Technologies	PI 100%	$6,000	2002	Moscow State University of the Printing Arts, Russia
AGENCY: **Fulbright U.S. Scholar Program**. Bureau of Educational and Cultural Affairs (U.S. Dept. of State). **Traditional/Core Award.** TITLE: Interactive Media, Usability, and Design Com.	PI 100%	$30,000	1999-2000	St. Petersburg State U of Information Technology, Mechanics, and Optics, SP, Russia
				Total Funding: **$42,000**

PUBLICATIONS

Refereed Journals (Under Review and Development)

1. **Faiola, A**., Villano, J. and Soroya, S. (Under Dev.). Investigating the Feasibility, Usability, and Efficacy of a Virtual Reality Cognitive Training Platform for Brain Cancer Patients with Mild Cognitive Impairment: A Single-Arm Pilot Study, *Journal of Medical Internet Research*.

2. De Giorgi, R., Cuscito, R., Piccionetti, A., Gentili, F., Casolani, S., Rubeca, C., Salera, C., Iosa, M., **Faiola**, **A.**, DeBartolo D., Barbato, S., Morone, G., and Tieri, G. (Under Review). Psychometric and physiological assessment of the effects of virtual reality in cardiovascular rehabilitation: a randomized controlled trial, *Digital Health*.

Refereed Papers (Journals, Proceedings**,** Extended Abstracts, (*In Press/Published*)

1. **Faiola, A.,** Soroya, S., Hao, Z, and Munker, R. (In Press) Mental Health Needs of Families of ICU Patients and the Role of Mobile Health: Correlational Pilot Study, *JMIR, Formative Research (Digital Health Interventions)*.

2. Naeem, S. B., Boulos, M. K., & Azam, M., **Faiola, A.** (In Press). Determinants of mHealth adoption among people aging with chronic diseases in rural areas: the unified theory of acceptance and use of technology model, *Future Internet*.

3. **Faiola, A.,** Soroya, S., Hao, Z, and Munker, R., and Lambert, J. (2026). Investigating the Feasibility, Usability, and Efficacy of a Mobile App to Reduce Anxiety and Depression of Families of Critical Care Cancer Patient: A Quasi-Experimental Pilot Study, *Healthcare, 14*(3), 353. doi.org/10.3390/healthcare14030353

4. Thompson JR, Weber SJ, Mulvaney SA, Goggans S, Brown M, **Faiola A**, Maamari L, Hull PC. (2025) Parental Perceptions of Priorities and Features for a Mobile App to Promote Healthy Lifestyle Behaviors in Preschool Children: Mixed Methods Evaluation. *JMIR Pediatr Parent*. 2025 Feb 19;8:e65451. doi: 10.2196/65451. PMID: 39970437; PMCID: PMC11888088.

5. Soroya SH, Sharif A, **Faiola A**. (2024) Role of Pakistani e-libraries in promoting health awareness for the attainment of Sustainable Development Goal-3. *Health Information and Libraries Journal*, 42, 3. doi.org/10.1111/hir.12554

6. Naeem, S. B., **Faiola, A.**, Rehman, A. U., Boulos, M. K. (2024). Electronic Health (eHealth) Literacy and Self-Care Behaviors—Results from a Survey of University Students in a Developing Country, *Information, 15*(10), 636. doi: 10.3390/info15100636.

7. Azam, M.; Bin Naeem, S.; Kamel Boulos, M.N.; **Faiola, A.** (2023) Modelling the Predictors of Mobile Health (mHealth) Adoption among Healthcare Professionals in Low-Resource Environments. *Int. J. Environ. Res. Public Health, 20*, doi: 10.3390/ijerph20237112

8. Weber, S., Mulvaney, S., **Faiola, A.,** Brown, M., Koyama, T., Sun, L., Goggans, S., Hull, P. (2023). Commercially Available Mobile Apps With Family Behavioral Goal Setting and Tracking for Parents: Review and Quality Evaluation, *JMIR Pediatr Parent; 6*:e41779, URL: https://pediatrics.jmir.org/2023/1/e41779, doi: 10.2196/41779

9. Soroya, S., Sharif, A., & **Faiola, A**. (2023). Investigating the Contribution of Pakistani e-Libraries in Promoting Health Awareness for the Attainment of Sustainable Development Goal-3. *Association for Information Science & Technology, 27-31 October 2023, Novotel London West, London, UK.*

10. Liu, H., Azam, M., Bin Naeem, S., & **Faiola, A**. (2023). An overview of the capabilities of ChatGPT for medical writing and its implications for academic integrity. *Health Information & Libraries Journal*, 1–7. doi.org/10.1111/hir.12509

11. Rehman, A., Bin Naeem, S., & **Faiola, A.** (2023). The prevalence of low health literacy in undergraduate students in Pakistan. *Health Information & Libraries Journal*, *40*(1), 103–108. doi.org/10.1111/hir.12475

12. Zolnour A, Eldredge CE, **Faiola A,** Yaghoobzadeh Y, Khani M, Foy D, Topaz M, Kharrazi H, Fung KW, Fontelo P, Davoudi A, Tabaie A, Breitinger SA, Oesterle TS, Rouhizadeh M, Zonnor Z, Moen H, Patrick TB and Zolnoori M (2023). A Risk Identification Model for Detection of Patients at Risk of Antidepressant Discontinuation, *Frontiers in Artificial Intelligence (Medicine and Public Health), 6.* doi.org/10.3389/frai.2023.1229609

13. Soroya, S.H., Rehman, A.U. and Faiola, A. (2024), Exploring the impact of Internet and media sources exposure on self-care behavior: mediating the role of health anxiety, literacy and information-seeking behavior, *Kybernetes*, 53(11), pp. 4797-4817. doi.org/10.1108/K-06-2023-1003

14. Soroya, S. H. and **Faiola, A**. (2023). Why did people avoid information during the COVID-19 Pandemic? Understanding information sources' dynamics among Pakistani Z generation. *Library Hi Tech*, 40(6):150. doi: 10.1108/LHT-02-2022-0113

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104. Faiola, A. (1989). Improving courseware development efficiency: The effects of authoring systems on team roles and communication. *Educational Technology. 29*(8), 16-19. https://www.jstor.org/stable/44426848

105. **Faiola, T**. & DeBloois, M. L. (1988). Designing a visual factors-based screen display interface: The new role of the graphic technologist. *Educational Technology, 28*(8), 12-21. https://www.jstor.org/stable/44426897

Refereed Posters and Workshops

1. Hull, PC., Chih, M.Y., Alexander, J.T., Scales, J., Sullivan, A., McLouth, L., **Faiola, A**, Brown, K., McCann, C., Mullet, T., (Under Review). Provider and Staff Perceptions of Digital Technology Tools for Addressing Social Determinants of Health with Cancer

Patients, *American Society of Preventive Oncology Annual Conference, April 6-8, Philadelphia, PA.*

2. Chih, M., **Faiola, A.,** Alexander, J.L., Stoebel, C., McCann, C., Brown, K., Hull, P., and Mullett, T. (Under Review), Developing a Cancer Patient-Centered Navigation System: Usability Results, *American Medical Informatics Association, November 15-19, Atlanta, GA.*

3. **Faiola, A.,** Hao, Z., Munker, R., Soroya, S., Schrader, S. & Burch, M. (2023). Addressing the Mental Health Disparities of Families of Cancer Patients from Rural Kentucky: Investigating the efficacy of FamCare+ to reduce mental trauma using a mobile health service that connects families at home with the bedside, *College of Medicine, Alliance Research Initiative Seminar, University of Kentucky, October 4, 2023.*

4. **Faiola, A.,** Villano, J., Mayer, K., Meulenbroek, P., Mayer, K., Soroya, S., Schrader, S. & Burch, M. (2023). Health Gaming Intervention as Neurostimulation Therapy for Brain Cancer Patients Suffering from Acute Cognitive Impairment: A Clinical Study to Improve Cognitive Function and Synaptic Plasticity, *College of Medicine, Alliance Research Initiative Seminar, October 4, 2023.*

5. **Faiola, A.,** Hao, Z. Montgomery-Yates, A., Soroya, S., Lenox, S., Piekarski, S., Tenuta, G., & Schrader, S. (2023). Addressing the Mental Health Disparities of Families of Cancer Patients from Rural Kentucky: A clinical study on the efficacy to reduce mental trauma using the mobile app intervention FamCarePlus, *Markey Cancer Research Day, May 12, 2023.*

6. **Faiola, A.,** Villano, J., Montgomery-Yates, A., Mayer, K., Soroya, S., Meulenbroekk, P., Lenox, S., Piekarski, S., Tenuta, G., & Schrader, S. (2023). Health Gaming Intervention as Neurostimulation Therapy for Brain Cancer Patients Suffering from Acute Cognitive Impairment: A Clinical Study to Improve Cognitive Function & Synaptic Plasticity, *Markey Cancer Research Day, May 12, 2023.*

7. **Faiola, A.,** Hao, Z., Soroya, S., Naeem, S., Lenox, S., Piekarski, S., & Tenuta, G. (2022). Addressing the Mental Health Disparities of Families of Cancer Patients from Rural Kentucky: Investigating the Efficacy of FamCare+ to Reduce Mental Trauma among Families (A Mobile Health Service that Connects Families at Home with Point-of-Care at the Bedside). *12th Annual Appalachian Translational Research Network Summit "Community-Academic Engagement: Building Resilience Together,"* November 14 and 15, 2022, University of Kentucky, Lexington, KY.

8. **Faiola, A.**, Abraham, J. & Papautsky, E.L. (2019). Delivering Patient Information and Access to Mental Health Counseling for ICU Families: Towards a Human-Centered Mobile Health System for Room-to-Family Communication. Poster, Extended Abstract and Presentation, *Proceedings from Human Factors and Ergonomics in Health Care, Chicago, IL, March 2019.*

9. **Faiola, A.,** Minh, H, & Bergey, D. (2019). Supporting the Mental Health of Families in the ICU: A Family-Centered Approach to Mobile Information Communication. Poster, University of Illinois at Chicago, Research Day, April 7, 2019.

10. **Faiola, A.**, Belkacem, I., Bloodworth, M., Bergey, D., Pecci, I., & Martin, B. (2019). Towards the Design of a Smart Glasses Application for MICU Decision-Support: Assessing the Human Factors Impact of Data Portability and Accessibility, Poster, *Human Factors and Ergonomics in Health Care, Chicago, IL, March 2019.*

11. Greenhill, K., **Faiola, A.** Lebowiz, L. & Bond, S. (2017). Creating Common Ground: A Medical Visualization Tool to Aid Physician / Family Communication in a Medical Intensive Care Unit Setting, Poster, *Applied Health Sciences Research Day*, November 1, 2017, University of Illinois at Chicago.

12. Boyd AD, Abraham J, Kitsiou S, Papautsky E, & **Faiola A.** (2017). Health Informatics Research Projects, Medical Technology Enterprise Consortium (MTEC), Poster, 2ⁿᵈ Annual Conference, March 30th, 2017. San Antonio, TX.

13. Tunnell, H. D., **Faiola, A.** & Bolchini, D. (2017). Guidelines to Incorporate a Clinician User Experience (UX) into the Design of Patient-Operated mHealth. Poster and Interactive Demo, *CHI 2017, ACM CHI Conference, Denver, CO*, April. 2017.

14. Zolnoori, M. Patrick, T. B., Conways, M., **Faiola, A**., & 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.*

15. Tunnell, H. D., **Faiola, A.** & 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.

16. Ansah-Koi, K., Srinivas, P., Strzeszkowski, D., Gross, M., & **Faiola, A.** (2016) Building Healthy Social Media for All: Investigating How Different Cultures Seek and Process Health Information, Extended Abstract. *Indiana University Purdue University Indianapolis (IUPUI) Research Day, April 8, 2016.*

17. Putka, J., Cavalcanti, L., Ahgharian, N., & **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.*

18. Srinivas, P, Cavalcanti, L., & **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.*

19. Ansah-Koi, K., Srinivas, P., Strzeszkowski, D., Gross, M., & **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.*

20. Srinivas, P., **Faiola, A.** & Hillier, S. (2015). Improving patient safety: Integrating data visualization and communication into ICU workflow to reduce cognitive load. Poster. *Human Factors and Ergonomics in Health Care (Improving the Outcomes)*, April 26, 2015, Baltimore, MD.   doi.10.1177/2327857915041013

21. Srinivas, P., & **Faiola, A.** (2014). Smartphone dependency and consciousness: Observing flow in the everyday life. Extended Abstract. *Indiana University—Purdue University, Research Day, April 11, 2014.*

22. Srinivas, P., & **Faiola, A.** (2014). Modeling daily rounds to support efficient task management in ICU workflow. Poster, *Workshop on Interactive Systems in Healthcare (WISH 2014). In conjunction with the American Medical Informatics Association Annual Symposium, November 15, 2014.*

23. **Faiola, A.** & Srinivas, P. (2014). Extreme mediation: observing mental and physical health in everyday life. Poster. *Proceedings of the 2014 Association for Computing Machinery (ACM) International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2014),* September 2014.

24. Boston-Clay, C., Jones, J., **Faiola, A.,** Dixon, B. & 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.

25. Finch, R. J., Srinivas, P., Karanam, Y., Koval, O., & **Faiola, A.** (2014). Augmenting consciousness through invasive technologies: How do cochlear implant patients engage activity in the world? *Indiana University—Purdue University, Research Day, April 11, 2014.* Poster and Extended Abstract.

26. **Faiola, A.,** Srinivas, P., Karanam, Y., & Koval, O. (2014). Reducing diagnostic error in the ICU: A novel approach to clinical workflow -- visualization-communication integration. *Indiana University—Purdue University, Research Day, April 11, 2014.* Poster and Extended Abstract.

27. Srinivas, P., Karaham, Y., Chartash, D., Doebbeling, B., & **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.

28. **Faiola, A.,** Srinivas, P., Karanam, Y. & 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.*

29. 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.*

30. Srinivas, P. & **Faiola, A**. (2014). Smartphone Dependency and Consciousness: Observing Flow in Everyday Life, Poster, *IUPUI Research Day, April 11.*

31. Karaham, Y., **Faiola, A**., & Chartash (5/25/2013) MIVA: Decision Support, *Poster Session.* World Usability Day, IUPUI, Indianapolis, IN.

32. Stupiansky, N., Cummings, T., **Faiola, A**., Defazio, J. & 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.

33. **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.

Invited Book Chapters

1. **Faiola A.,** Vatani H., & Srinivas P. (2018) The Impact of Smartphone Use on the Psychosocial Wellness of College Students. In: *Alexandrov D., Boukhanovsky A., Chugunov A., Kabanov Y., Koltsova O. (eds) Digital Transformation and Global Society. DTGS 2018. Communications in Computer and Information Science, vol 859*. Springer, Cham., *264-276.* doi.10.1007/978-3-030-02846-6_21

2. Bolchini, D., & **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 and Business Media, pp. 2328-2329. DOI**:** doi.10.1007/978-1-4419-9863-7_217

3. **Faiola, A.** & Newlon C. (2011) Advancing Critical Care in the ICU: A Human-Centered Biomedical Data Visualization Systems. In: *Robertson M.M. (eds) Ergonomics and Health Aspects of Work with Computers. Ergonomics and Health Aspects of Work with Computers. Lecture Notes in Computer Science, Vol 6779*. Springer, Berlin, Heidelberg, 119-128. doi.10.1007/978-3-642-21716-6_13

4. Bolchini D. & **Faiola A.** (2011) The Fusing of "Paper-in-Screen": Reducing Mobile Prototyping Artificiality to Increase Emotional Experience. In: *Marcus A. (eds) Design, User Experience, and Usability. Theory, Methods, Tools and Practice. DUXU 2011.*

Lecture Notes in Computer Science, vol 6770. Springer, Berlin, Heidelberg, 548-556. https://link.springer.com/chapter/10.1007/978-3-642-21708-1_61

5. **Faiola, A**. & 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.

6. Duke J., **Faiola A.,** & Kharrazi H. (2009) A Novel Visualization Tool for Evaluating Medication Side-Effects in Multi-drug Regimens. In: *Jacko J.A. (eds) Human-Computer Interaction. Interacting in Various Application Domains. HCI 2009. Lecture Notes in Computer Science, vol 5613. Springer, Berlin, Heidelberg*, pp. 478-487. doi.10.1007/978-3-642-02583-9_52

7. **Faiola A**. & Smyslova O. (2009) Flow Experience in Second Life: The Impact of Telepresence on Human-Computer Interaction. In: *Ozok A.A., Zaphiris P. (eds) Online Communities and Social Computing. OCSC 2009. Lecture Notes in Computer Science, vol 5621. Springer, Berlin, Heidelberg*, 574-583. doi.org/10.1007/978-3-642-02774-1_62

8. Kharrazi H., **Faiola A**., & Defazio J. (2009) Healthcare Game Design: Behavioral Modeling of Serious Gaming Design for Children with Chronic Diseases. In: *Jacko J.A. (eds) Human-Computer Interaction. Interacting in Various Application Domains. HCI 2009. Lecture Notes in Computer Science, vol 5613. Springer, Berlin, Heidelberg*, 335-344. doi.10.1007/978-3-642-02583-9_37

9. Luzcando E., Bolchini D., & Faiola A. (2009) Evaluating Usability-Supporting Architecture Patterns: Reactions from Usability Professionals. In: *Jacko J.A. (eds) Human-Computer Interaction. New Trends. HCI 2009. Lecture Notes in Computer Science, vol 5610. Springer, Berlin, Heidelberg*, 320-328. doi.10.1007/978-3-642-02574-7_36

10. **Faiola, A**. & 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. https://www.igi-global.com/book/linguistic-cultural-online-communication

11. **Faiola A.,** & Voiskounsky A.E. (2007) Flow Experience of MUD Players: Investigating Multi-User Dimension Gamers from the USA. In: *Schuler D. (eds) Online Communities and Social Computing. OCSC 2007. Lecture Notes in Computer Science, vol 4564. Springer, Berlin, Heidelberg*, 324-333. doi.10.1007/978-3-540-73257-0_36

12. 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.

Books and Educational Workbooks

1. **Faiola, A.** & Johnson, C. (Ed). (2004). *Psychology of human-computer interaction*. (Course Workbook) Indianapolis: IUPUI Publishing Services.

2. **Faiola, A.** & Larew, M. (Ed). (2004). *Human-computer interaction: Advanced concepts*. (Course Workbook) Indianapolis: IUPUI Publishing Services.

3. Faiola, A. (2003). *Typography for print and the Web: Web usability tools and methods*. (*Шрифты для печати и Web-дизайна*) Saint Petersburg, Russia: BHV Publishing GmbH.

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. (2000). *Typography primer*, Sewickley, PA: Graphic Arts Technical Foundation Press.

7. 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.

Non-Refereed Papers and Theses

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. (2004). Advancing the design of more useable technologies: Human-computer interaction at IUPUI, *Informatics, 2*(2), 14-15.

3. Faiola, A. (2004). *Information Visualization: The mountain-view project. Informatics, 2*(2), 16.

4. 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.*

5. Faiola, A. (1989). Enhancing the skills of the graphic specialist for CBT development. *Instruction Delivery Systems*.12(5), 12-14.

6. Faiola, A. (1988). Principles and Guidelines for a Screen Display Interface. *VideoDisc Monitor*. 8(2), 27-29.

7. Faiola, A. (1984). *A computer-assisted instruction overview and prototype*. Unpublished master's thesis, The Ohio State University, Columbus, OH.

8. Faiola, A. (1979). *The transient object: A look at contemporary thinking and issues as applied to my recent artwork*. Master's Abstracts International, 65 l.

PRESENTATIONS (*First Name: Primary Presenter*)

Invited Talks, Keynotes, and Panels (*Local, National, and International*)

1. Faiola, A. (Nov. 3, 2025). *AI-Empowered VR Therapeutic Medicine for Patients with Cognitive Impairment: Increasing Synaptic Plasticity through Patient Real-Time Performance Tracking and Game Modulation,* Invited Panel, Cincinnati AI in Healthcare 2025 Summit, 1918 Innovation Lab, University of Cincinnati.

2. Faiola, A. (October 7, 2025). *Digital Health Solutions*: *Transforming Healthcare Through Translational Research and Innovation*, Seminar Keynote, Beta Iota Founders' Day Annual Seminar. University of Cincinnati, College of Nursing.

3. Faiola, A. (October 10, 2025). *The Synergetic Effects of Virtual Reality Immersion and Selective Attention Therapy for Brain Cancer Patients with Mild Cognitive Impairment: Recent Findings*, Seminar Speaker, University of Cincinnati, Gardner Neuroscience Institute Brain Tumor Symposium, University of Cincinnati.

4. Faiola, A. (April 11, 2025). *AI-Powered VR as In-Home Interventional Treatment for Cancer and Dementia Patients with Mild Cognitive Impairment: Generating Non-Invasive Stimuli in the Frontoparietal Neural Network*. Seminar Speaker. University of Cincinnati, Cancer Center 2025 Research Retreat, College of Medicine.

5. Faiola, A. (March 4, 2025). *AI-Powered VR as In-Home Interventional Treatment for Cancer and Dementia Patients with Mild Cognitive Impairment: Maximizing Frontoparietal Network Stimulation through Immersion, Selective Attention Therapy, and Non-Player Character Modelling*. Sapienza University of Rome, Italy, Department of Psychology, Area: Neuropsychology.

6. Faiola, A. (October 8, 2024). *A Virtual Reality Health Game Intervention for Neuro Oncology Patients Suffering from Mild Cognitive Impairment: A Review of Other Research Directions in Mobile Health and Biosensor Diagnostics*, University of Poland, Department of Cognitive Psychology, Human Interactivity & Language Lab

7. Faiola, A. (Sept. 20, 2023). *Making Cancer Care Portable & Equitable for Patients and Their Families: Using mHealth and Health Gaming to Impact Health Outcomes*, Markey Cancer Research Seminar Series, Seminar Speaker, College of Medicine, University of Kentucky.

8. Faiola, A. (Aug. 25, 2023). *Health disparities and information behavior: The Role of Mobile Health in Mitigating Mental Trauma in Families of Cancer Patients*, Social Hour Special Event, Association for Information Science & Technology, Guest Speaker.

9. Faiola, A. (Nov. 22, 2022). *Addressing the mental health disparities of families of critically ill patients from rural populations: Investigating the efficacy to reduce mental trauma using mobile health technology that connects families at home with clinicians at the bedside*, 2nd International Conference on Interdisciplinary Approach in Social Sciences 2022 (Mental Health for All), Keynote (*Zoom*): Punjab, Pakistan.

10. **Faiola, A.,** Mathews, S., & Woodbury, M. (Sept. 14, 2022). *Panel on Digital Health Education, Nexus Summit 2022, Minneapolis,* Sept. 14, 2022, Virtual Panel, Sept. 13-14.

11. Faiola, A. (May 2018). *The Rise of the Digital Health Information Society? Empowering People by Connecting Mobile Health to Healthy Lifestyle Management*, Keynote, 3rd International Conference on Digital Transformations & Global Society, St. Petersburg State University of Information Technology and Optics, Russia.

12. Faiola, A. (Nov. 2017). *Consumer Health Informatics: Empowering Patients with Noncommunicable Diseases through mHealth*, Keynote, International Conference on Informatics, Health, & Technology, King Saud bin Abdulaziz University for Health Science, Riyadh, Saudi Arabia. [News Link]

13. Faiola, A., (Oct. 2018). *The Rise of Consumer eHealth Informatics: Advancing Mobile Health for the Rheumatoid Patient*, American College of Rheumatology**,** University Club of Chicago, Chicago, IL, Keynote (*Zoom*): Panel/Presentation.

14. Faiola, A., (Oct. 31, 2016). *Future Implications of Health Information Management Systems in Non-Communicable Disease Management*, Session: Mobile Health Technology and Chronic Disease Management: Applications in Rehabilitation, The American Congress of Rehabilitation Medicine, Chicago, IL Panel Presentation.

15. **Faiola, A.,** Khairat, S., & Kaufman, D. (June 29, 2016). *From coexistence to convergence: The pedagogical transpositioning of human-computer interaction within biomedical informatics*. 2016 InSpire, Education Symposium, American Medical Informatics Association. Panel/Presentation (S12), Columbus, OH.

Refereed Presentations / Talks

1. Chih M-Y, **Faiola A,** Alexander JL, Stroebel C, McCann C III, Brown K, Hull P, Mullett T. *Developing a Cancer Patient Navigation System: Usability Results*. Poster Presentation. 2025 American Medical Informatics Association (AMIA) Annual Symposium, Atlanta, GA. November 18, 2025.

2. Zolnoori, M., Ngufor, C., **Faiola, A.,** Eldredge, C. E., Luo, J. Patrick, T., Sohn, S. BallsBerry, J. Tafti, A. & Shah, N. (Nov 6, 2019). *Identifying factors affecting drug discontinuation in patients with depression: Text analysis of patient drug review posts*. (S09: Oral Presentations – Mental Health) Presented at the American Medical Informatics Association, Annual Symposium, Washington, DC. https://www.amia.org/amia2019/oral-presentations

3. Faiola, A. (Feb 14-15, 2019). *mHealth that supports the role of the MICU nurse in family mental healthcare,* Presented at*:* Session 4: Informatics Support for Practice-based Knowledge Generation and Nursing and Healthcare Practice Sponsored by Shadow Health, Health Informatics Kobb Symposium, College of Nursing, University of Florida, Gainesville, FL. https://kobbsymposium.nursing.ufl.edu/topics/

4. Faiola, A. (**Nov** 11, 2018). *FAMcare: A MICU Room-to-Mobile System—Supporting the Communication Needs of Families*, Presented at the: American Medical Informatics Association, Annual Symposium, San Francisco, CA. https://symposium2018.zerista.com/event/member/508059

5. Zolnoori, M., **Faiola, A**., & Patrick, T. B (Nov 11, 2018). *Utilizing Consumer Health Posts to Identify Underlying Factors Associated with Patients' Attitudes towards Antidepressants*, Presented at: American Medical Informatics Association, Annual Symposium, San Francisco, CA. https://knowledge.amia.org/67852-amia-1.4259402/t006-1.4263223/t006-1.4263224/2976194-1.4263228/2973531-1.4263225

6. **Faiola, A.,** Vatani, H., Greenhill, K., Bhuma, M., & Agarwal, M. (May 21, 2018). *HYPOalert: Designing Mobile Technology for Hypoglycemic Detection and Monitoring—Based on Human Breath*, Presented at the: 11th Pervasive Health Conference 2018, New York Academy of Medicine, New York, New York.

7. **Faiola, A.,** Vatani, H., & Srinivas, P. (June 1, 2018). *The impact of smartphone use on the psychosocial wellness of college students*, Presented at the: 3rd International Conference—Digital Transformation and Global Society 2018, St. Petersburg, Russia.

8. Zolnoori, M., Patrick, T., Fung, K., **Faiola, A.,** Wu, Y., Zhu, J., and Eldredge, C. (Nov, 2017). Development of an Adverse Drug Reaction Corpus from Consumer Health Posts for Psychiatric Medication, (Oral Presentations – Mental Health) Presented at the American Medical Informatics Association, Annual Symposium, Washington, DC. https://digitalcommons.usf.edu/si_facpub/444/

9. **Faiola, A.,** Papautsky, E. L., & Greenhill, K. (Oct 5-7, 2017) eMental health for family members of ICU patients: Findings that support a mobile family-centered approach to wellness, *7th Annual European Conference on Mental Health,* Berlin, Germany.

10. **Faiola, A.** & Srinivas, P. (Oct 8-12, 2017). Excessive smartphone use and mental health: The impact of extreme mediation on psychosocial wellness, *17th World Congress of Psychiatry (World Psychiatric Assoc.)*, Berlin, Germany.

11. Boyd AD, Abraham J, Kitsiou S, Papautsky E, & **Faiola A.** (March 30, 2017). Health Informatics Research Projects, Medical Technology Enterprise Consortium (MTEC), Presentation, 2nd Annual Conference, San Antonio, TX.

12. **Faiola, A.,** Papautsky, E. L. and Joo, M. Supporting Patient Healing through ICUsmartCARE: Technologies that Enable Family Collaboration, Presence, and Information Flow, *2016 IEEE International Conference on Healthcare Informatics (ICHI)*, 2016, pp. 297-300. doi: 10.1109/ICHI.2016.42.

13. **Faiola, A.** Srinivas, P. & Duke, J. (Nov 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. https://pubmed.ncbi.nlm.nih.gov/26958190/

14. Srinivas, P., **Faiola, A.,** & Doebbeling, B. (Oct 15, 2015). A Ubiquitous Situation-Aware Data Visualization Dashboard to Reduce ICU Clinician Cognitive Load, Presented at: *IEEE HealthCom 2015 Conference, Boston, MA*.

15. Srinivas, P., **Faiola, A.,** & Khan, B. (Oct 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*.

16. Srinivas, P., Tunnell, H., **Faiola, A.,** & Haggstrom, D. (Oct 11, 2015). Clinicians as Secondary Users of Patient-Centered, Mobile Technology in Complex Healthcare Settings, Presented at: *IEEE HealthCom 2015 Conference, Boston, MA*.

17. Srinivas, P. & **Faiola, A.** (April 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*.

18. **Faiola, A.** & Srinivas, P. (Sept 15, 2014). Extreme mediation: observing mental and physical health in everyday life. Presentation. *Proceedings of the 2014 Association for Computing Machinery (ACM) International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2014)*.

19. **Faiola, A**., Srinivas, P., & Karanam, Y. (Nov 15, 2014). A novel approach to ICU data visualization and communication integration. Presentation. WISH 2014, *Workshop on Interactive Systems in Healthcare (WISH), Washington, DC. In Conjunction with the American Medical Informatics Association Annual Symposium.* https://wish2014.wordpress.com/

20. **Faiola, A.,** Srinivas, P., Karanam, Y., Chartash, D., & Doebbeling, B. (April 23-31, 2014). VizCom: a novel workflow model for ICU clinical decision support. Extended Abstract. ACM *CHI'14, Human Factors in Computing Systems*, *Association for Computing Machinery,* Toronto Ontario, Canada.
https://dl.acm.org/doi/10.1145/2559206.2581332

21. Srinivas, P., & **Faiola, A.** (Nov 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*.

22. **Faiola, A.** & Srinivas, P. (Oct 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*.

23. Boston-Clay, C., Jones, J., **Faiola, A.,** Dixon, B. & Pfaff, M., (Nov 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*.

24. Srinivas, P**.** & **Faiola, A**. (Sept 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*.

25. Srinivas, P., & **Faiola, A.** (April 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.*

26. **Faiola, A.,** & Srinivas, P. (Nov 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).*

27. **Faiola, A**. (Nov 16, 2013). Sociocultural-Embodied Consciousness: An Integrated Theory, Presented at: *13ᵗʰ 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.

28. **Faiola, A.** (May 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.

29. **Faiola, A**., Boston-Clay, C., Jones, J., Newlon, C., Downey, M., & Comer, S. (May 5, 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.

30. **Faiola, A.,** Boston-Clay, C., Jones, J., Newlon, C., & Downey, M. (May 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.

31. Boston-Clay, C., Jones, J., & **Faiola,** (May 2012). The Power of a Triangulation Study in Healthcare System Implementation. 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.

32. Bolchini, D. & **Faiola, A**. (July 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).

33. **Faiola, A**. & Newlon, C. (July 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).

34. **Faiola, A**. & Downey, M. (Nov 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.

35. Pulido, D., Bolchini, D. & **Faiola, A**. (Feb 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.

36. Edgardo, L., Bolchini, D. & **Faiola, A**. (July 2, 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.

37. Duke, J. & **Faiola, A**. (July 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.

38. **Faiola, A.** & Smyslova, O. (July 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.

39. Kharrazi, H. & **Faiola, A.** (July 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.

40. Newlon, C., **Faiola, A.,** & MacDorman, K. (July 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**.

41. **Faiola, A.** & Hillier, S. (Feb 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.

42. Voiskounsky, A. E. & **Faiola, A**. (July 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.

43. **Faiola, A.** & Matei, S. A. (March 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.

44. Matei, S. A., Wheatley, D. J., & **Faiola, A**. (June 19, 2006). *Multipurpose mobile devices, graphic user interfaces and physical affordances: a case study*. Presented at the: International Communication Association Conference, Dresden, German.

45. Beatty, K, Elliott, R. & **Faiola, A.** (June 28, 2006). Seeking news on the internet: an analysis of user behavior in selecting online media outlets. Sudweeks, Fay; Hrachovec, Herbert; Ess, Charles (Editors). *Cultural attitudes towards technology and communication 2006: proceedings of the Fifth International Conference on Cultural Attitudes towards Technology and Communication*; Tartu, Estonia, 28 June-1 July 2006. Murdoch University, 2006. p. 707.

46. Newlon, C. & **Faiola, A.** (June 28, 2006). Support for mega-team collaboration. Sudweeks, Fay; Hrachovec, Herbert; Ess, Charles (Editors). *Cultural attitudes towards technology and communication 2006: proceedings of the Fifth International Conference on Cultural Attitudes towards Technology and Communication*; Tartu, Estonia, 28 June-1 July 2006. Murdoch University, 2006. p. 707.

47. **Faiola, A.** & Hillier, S. (July 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.

48. Faiola, A. (July 25, 2005). Integrating the Visualization of Personal Histories to Enhance File Search in 3D Landscapes: Applying File Search to 3DPDPView. Presented at: *11th International Conference on Human-Computer Interaction*., Las Vegas, NV.

49. **Faiola, A**. & Matei, S. (May 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.

50. Faiola, A. (May 25, 2005). *The Design Enterprise: Rethinking the HCI Education Paradigm*. Presented at: Presented at: *11th International Conference on Human-Computer Interaction*. Las Vegas, NV.

51. Faiola, A. (May 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.

52. Faiola, A., (May 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.

53. Buher, M. & **Faiola, A**. (May 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.

54. Faiola, A. (July 10, 2003). *The Copernican shift: HCI education and the design enterprise*. Presented at: *10th International Conference on Human-Computer Interaction*. Crete, Greece.

55. Faiola, A. (June 27, 2003). *eBook Technologies in America and Russia*. Presented at the: Conference of the World Bank and Russian National Fund of Education and Training for Schoolbook Editors and Editorial Staff, Moscow, Russia.

56. Faiola, A. (June 24, 2003). *Children's Book Typography: An Overview of Practice and Empirical Study*. Presented at the: Conference of the World Bank and Russian National Fund of Education and Training for Schoolbook Editors and Editorial Staff, Moscow, Russia.

57. Faiola, A. (May 28, 2002). *eBook Market Potential in Russia: Trends, Copyrights, and Technologies.* Presented at the: Council on University Publishing in Russia, 10th Annual Conference, Moscow, Russia.

58. Faiola, A. and Sturm, C. (April 22, 2002). *Aspects of Remote Testing*. Presented at the: Computer-Human Interaction Conference, It's A Global Economy Out There: Usability Innovation for Global Market Places. Minneapolis, MN.

59. Faiola, A. (April 22, 2002). *Cross-cultural studies of hypermedia design and accessibility*. Presented at the Workshop of the 2002 Computer Human Interaction Conference, It's A Global Economy Out There: Usability Innovation for Global Market Places. Minneapolis, MN.

60. **Faiola, A.** & Rosenbaum, H. (April 23, 2002). *Challenges in teaching usability theory and testing for new media and novel interface technologies*. Presented at the Educational Forum of the 2002 Computer-Human Interaction Conference, Minneapolis, MN.

61. Faiola, A. (April 22, 2002). *Russian and American Mental Models and the World-Wide-Web: A Cross-Cultural Study of Hypermedia Design and Accessibility*. Presented at the: 2002 Computer Human Interaction (CHI'02), Usability Workshop: Usability Innovation for Global Market Places, Minneapolis, MN.

62. Faiola, A. (Nov 18, 2001). *Understanding Usability for New Media Products: Design and Testing Principles for Graphic User Interfaces, Information Architecture, and Navigation*. Presented at the: Graphica 2001, International Conference on Graphics Engineering for Arts and Design, San Paulo Brazil.

63. Faiola, A. (April 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 (U.S. and Abroad) [Total: 39]

1. Faiola, A. (2019). *mHealth Informatics: Integrating Interaction Design w/ Health Data Science*, Ramaiah University of the Health Sciences and College of Medicine, Bangalore, India.

2. Faiola, A. (April 26, 2018). *Enabling Human Systems: Biomedical and Health Informatics and Socio-Augmentation*, Presented to: Human Augmentics Group, University of Illinois at Chicago, Chicago, IL.

3. Faiola, A. (April 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.

4. Faiola, A. (Dec 5, 2017). *Biomedical Interaction Science: Applying Informatics to the Design and Analysis of mHealth Information Technologies*, Presented to: Biomedical and Health Informatics Colloquium Series, University of Illinois at Chicago, Chicago, IL.

5. Faiola, A. (March 31, 2016). *Biomedical & Health Informatics: Empowering Patients and their Families through mHealth*, Presented to: Department of Informatics, Health Informatics Faculty, UC Irvine, CA.

6. Faiola, A. (Dec 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.

7. Faiola, A. (Nov 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.

8. Faiola, A. (Nov 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.

9. Faiola, A. (May 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.

10. Faiola, A. (Sept 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.

11. Faiola, A. (May 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.

12. Faiola, A. (Sept 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.

13. Faiola, A. (Sept 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.

14. Faiola, A. (Nov 20, 2011). *The Effects of Flow in Virtual Worlds and Game-Based Learning Behavior*. Presented to: St. Petersburg State University, Department of Psychology, St. Petersburg, Russia.

15. Faiola, A. (Nov 20, 2011). *Data Visualization as Psychological Tools of Mediation and Clinical Learning*. Presented at: Beijing University, Department of Computer Science, HCI Lab, Beijing, China.

16. Faiola, A. (Dec 3, 2011). *Clinical Decision Support InfoViz Systems: Modeling Complex Medical Space Using Cultural-Historical Activity Psychology*. Presented at: Tallinn University, Informatics Institute, Tallinn, Estonia.

17. Faiola, A. (Nov 17, 2011). *Data Visualization as Psychological Tools of Mediation and Clinical Learning*. Presented at: Moscow State University, Department of Psychology, Moscow, Russia.

18. **Faiola, A**. & Hillier, S. (March 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.

19. Bakowski, D., **Faiola, A**. & Witt, G. J. (Oct 3, 2008). *Transportation Usability,* Presented to the: World Usability Day, Workshop and Seminar, Indiana Chapter Usability Professionals' Association (UPA), Indianapolis, IN.

20. **Faiola, A.,** Hillier, S., & Saleem, J. (Nov 8, 2007). *Usability of Health Information Technology: Biomedical Human-Computer Interaction for Improving Patient Care.* Presented to the: World Usability Day, Workshop and Seminar, Indiana Chapter Usability Professionals' Association (UPA), Indianapolis, IN.

21. Faiola, A. (Nov 14, 2006). *Return on investment and Usability. World Usability Day, Workshop and Seminar*, Presented to the: Indiana Chapter Usability Professionals' Association (UPA), Indianapolis, IN.

22. Faiola, A. (Dec 17, 2004). *Principles of Design and Usability for Web Publishing*. Presented at: Moscow State University of the Printing Arts, Moscow, Russia.

23. Faiola, A. (Dec 14, 2004). *Computer Graphics and Prototype Construction: Engineering Products that Work for Humans*. Presented to the: House of Scientists, St. Petersburg, Russia.

24. Faiola, A. (Dec 18, 2004). *HCI Pedagogy: A New Framework*. Moscow State University, Presented to the: Department of Psychology and ACM CHI Chapter in Moscow, Russia.

25. Faiola, A. (June 12, 2003). *New Media Usability: Theory and Best Practices*. Presented to the: St. Petersburg Institute of Information Technology and Optics, Russia, Department of Computer Graphics and Engineering, St. Petersburg, Russia.

26. Faiola, A. (Dec 17, 2003). *Multimedia Interface Design and Usability*. Presented to the: Moscow State University of the Printing Arts, Department of Information Technology, Moscow, Russia.

27. Faiola, A. (May 21, 2002). *eBook Technologies: An Overview*. Presented to the: Moscow State University of the Printing Arts, Department of New Media and Distance Education. Moscow, Russia.

28. Faiola, A. (May 16, 2002). *Designing a User-Centered Web Interface: Design, Architecture and Usability*. Presented to the: Art and Design Institute of Berlin, Industrial Design Department, Berlin, Germany.

29. Faiola, A. (May 14, 2002). *Web Usability and International User Interfaces: Theory, Tools, and Techniques*. Presented to the: University of Bremen, Computer Science Department, New Media Program, Bremen, Germany.

30. Faiola, A. (May 13, 2002). *Designing a User-Centered Web Interface: Design, Architecture and Usability*. Presented to the: Delpht Technical University, Computer Science Department, Media Knowledge, Delpht, Netherlands.

31. Faiola, A. (May 5, 2002). *New Media Interface Design and Usability: Design Theory and Testing for Web Products*. Presented to the: University of Amsterdam, New Media Department, Amsterdam, Netherlands.

32. Faiola, A. (June 6, 2002). *Web Usability Theory Models for Teaching and Application*. Presented to the: House of Scientists, St. Petersburg, Russia.

33. Faiola, A. (May 5, 2002). *Curricula and Cross-Cultural Issues in Interactive Media Usability*. Presented to the: Mediamatic Design, Consulting Group, Amsterdam, Netherlands.

34. Faiola, A. (June 3, 2002). *New Media Usability: Theory and Best Practices*. Presented to the: St. Petersburg Institute of Information Technology and Optics (Tech University), Department of Computer Graphics and Engineering, St. Petersburg, Russia.

35. Faiola, A. (June 2000). *The New Media Enterprise: The Emergence of ePublishing*. Presented to the: Moscow State University of the Printing Arts, Moscow, Russia.

36. Faiola, A. (May 8, 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)*, Presented to the: St. Petersburg Institute of Information Technology and Optics, Russia. Department of Computer Graphics and Engineering, St. Petersburg, Russia.

37. Faiola, A. (Dec 13, 1999). *Preparing the Digital Designer for Future Trends and Strategies in an Info-Graphic Global Society—Part 1. (Visual Communication Theory and Design*. Presented to the: St. Petersburg Institute of Information Technology and Optics (Tech University), Russia. Department of Computer Graphics and Engineering, St. Petersburg, Russia.

38. Faiola, A. (May 20, 1999). *New Media Graphics Curricula: Pedagogy and Methodology*. Presented to the: House of Scientists, St. Petersburg, Russia.

39. Faiola, A. (May 11, 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 [Total: 10]

1. Faiola, A. (Feb 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., (Dec 21, 2011). *SoIC Recruitment Presentation: Research and Teaching and Overview of the Indiana University School of Informatics and Computing at IUPUI*, Presented to the: University of Public Relations, Beijing, China.

3. Faiola, A., (Dec 19, 2011). *SoIC Recruitment Presentation: Research and Teaching and Overview of the Indiana University School of Informatics and Computing at IUPUI*. Presented to the: School of Information Management, Sun Yat-Sen University, Guangzhou, China.

4. Faiola, A., (Dec 16, 2011). *SoIC Recruitment Presentation: Research and Teaching and Overview of the Indiana University School of Informatics and Computing at IUPUI*. Presented to the: School of Communication and Design, Sun Yat-Sen University, Guangzhou, China.

5. Faiola, A. (Oct 14, 2005). *Principles of web design and usability: Improving accessibility to law library online information*. Presented to the: Ohio Regional Association of Law Libraries (ORALL) and Chicago Area Law Librarians (CALL). Indiana University Purdue University Indianapolis, School of Law.

6. Faiola, A. (April 13, 2005). *Interaction design and system usability: Design an Effective strategy for Web and software development*. Presented to the: Indianapolis Quality Assurance Association Inc.

7. Faiola, A. (4/6/2005). *Web design and usability: Design an Effective strategy for academic Web development*. Presented to the: IUPUI Communications Division and Campus-Wide Web Deployment.

8. Faiola, A. (Nov 20, 2003). *Disciplinary Overview of Human-Computer Interaction: Bi-Annual Presentation to I502*. Presented to the: Indiana University – SoIC, IUPUI. Presented each semester to beginning graduate students.

9. Faiola, A. (March 14, 2001). *New Media Usability. TechConnect, Poster Session*, Presented to the: Indiana University Purdue University, Indianapolis, IN. (Invited presentation, initiated by the department.)

10. Faiola, A. (Feb 14, 2001). *Human Computer Interaction and Multimedia Usability Testing: Understanding the Key Components for Building Effective Interfaces*. Presented to the: Purdue University, Human Factors and Ergonomics Society, West Lafayette, IN.

PRODUCTS, PATENTS, AND COMPANIES

1. **Product**: MIVA: Medical Information Visualization Assistant, a data visualization clinical decision support system for use in the ICU or other clinical-data-intense environments.
   - **Patent #:** 8,645,164 B2 - **US Patent Link: [LINK]**
   - **Patent date filed**: 5/27/10 & 1/6/11 (**Patent date**: February 4, 2014; **Patent Expired**: 2018)
   - **Assignee**: Indiana University Research and Technology Corporation
   - **Inventors**: **Anthony Faiola**, Formally: Indiana University, Indianapolis; Currently: University of Kentucky, and **Simon C. Hillier,** Dartmouth College (EtnaNH) (Formally: Indiana University)

2. **Product**: Low Power Wireless Sensor System with Ring Oscillator and Sensors for Use in Monitoring of Physiological Data.
   - **Patent #:** 20150295562 (Provisional #) - **US Patent Link: [LINK]**
   - **Patent date filed**: April 13, 2015 (**Patent date published**: Oct. 15, 2015)
   - **Assignee**: Indiana University Research and Technology Corporation
   - **Inventors**: Mangilal Agarwal, Purdue University (IUPUI); Anthony Faiola, Indiana University (IUPUI); Hosseign Jafarian, Purdue University (IUPUI); Sudhir Shrestha, Purdue University; Khodadad Varahramyan, University of Maine; Ali Daneshkha, Purdue University.

3. **Product**: FamCarePlus
   - **Apple Store**: https://apps.apple.com/us/app/famcare/id6446958621
   - **Website**: https://famcareplus.org/
   - **Patent #:** No patent issued as of this date.
   - **Description: FamCarePlus supports access to patient health updates for family members, caregivers, and next-of-kin (NOK). FamCarePlus enhances communication and coordination between (remote) families and healthcare staff at point-of-care**.

4. **Product**: HomeTown Bound
   - **Patent #:** No patent issued as of this date.
   - **Description: Hometown Bound is an interactive gaming environment that includes cityscapes, persons and objects, through which cognitively impaired patients navigate. Moving through a 3D space as a (first-person) avatar, the game is designed to increase cognitive and sensory engagement through (embedded) selective attention (SA) exercises.**

5. **Company**: Advanced Insight Medical (AIM), LLC—Anthony Faiola, CEO
   - Registered in Indianapolis, Indiana, D&B DUNS Number: 078682124, Nov. 2016.
   - Dedicated to biomedical and health information technology such as mobile health and telehealth for purposes of self-monitoring, clinical support, and patient and family centered care.

TEACHING

SYMBOL DESCRIPTIONS		
COURSE TYPE	**NEW OR REVISED COURSES**	**LOCATION OF COURSES TAUGHT**
[R] = Research Methods	† = New Course Development	UC = University of Cincinnati
[P] = PhD Courses	†† = Completely Revision	UK = University of Kentucky
[I] = Introductory Course	* = Approx. semester enrollment	UIC = University of Illinois—Chicago
	** = Course Developed, not taught	IU = Indiana University
	# = Anticipated	PU = Purdue University

COURSES TAUGHT
(1998 TO PRESENT)
Courses Listed According to Discipline.

Health Sciences and Biomedical / Health Informatics

COURSE#	COURSE TITLE	TYPE	SIZE	NEW/REV	UNIVERSITY	
NURS8074	Introduction to Design Thinking for Health	**[R]**	10 (#)	†	UC	(Spg. 2026)
NURS8074	Introduction to Design Thinking for Health	**[R]**	5	†	UC	(Fall 2025)
HHS 454	Research (*Methods*) in Human Health Sciences	**[R]**	17	n/a	UK	(Spg. 2024)
CHS 150	Introduction to Interprofessional Healthcare	**[I]**	70	n/a	UK	(Fall 2023)
HHS 454	Research in Human Health Sciences	**[R]**	18	n/a	UK	(Spg. 2023)
HHS 455	Research Experience in the Health Sciences.	**[R]**	4	†	UK	(Spg. 2023)
PRD 560	Healthcare: Design Thinking for Mobile Health	**[R]**	15	†	UK	(Spg. 2023)
HHS 454	Research in Human Health Sciences	**[R]**	27	n/a	UK	(Fall 2022)
HHS 455	Research Experience in the Health Sciences.	**[R]**	3	†	UK	(Fall 2022)
CHS 150	Introduction to Interprofessional Healthcare	**[I]**	32	n/a	UK	(Spg. 2022)
HHS 455	Research Experience in the Health Sciences	**[R]**	6	n/a	UK	(Spg. 2022)
BHIS 501	Health Informatics Capstone Project	**[R]**	14	n/a	UIC	(2017-20)
BHIS 593	Design Thinking for Health: Seminar 1	**[R]**	5	†	UIC	(2019)
BHIS 500	Health Informatics Strategic Inquiry—Project	**[R]**	1	n/a	UIC	(2017-20)
INFO 305	Introduction to Research (*for Informatics*)	**[R]**	30	††	IU	(2014-16)
INFO 501	Introduction to Informatics for HCI	**[P/R]**	24	†	IU	(2014-16)

Human-Centered Computing (*Human Factors / Human-Computer Interaction*)

COURSE#	COURSE TITLE	TYPE	SIZE	NEW/REV	UNIVERSITY
INFO 270	Intro. to HCI Principles and Practices	**[I]**	12	††	IU
INFO 275	Intro. to Human-Computer Interaction Theory	**[I]**	25	††	IU
INFO 300	Human-Computer Interaction	**[I]**	30	††	IU
INFO 480	Exper. Design & Eval. of Ubiquitous Computing	**[I]**	12**	††	IU
INFO 563	Psychology of Human-Computer Interaction	**[R]**	15**	††	IU
INFO 541	Human Computer Interaction 1	**[I]**	15*	†	IU
INFO 542	Human-Computer Interaction II	**[I]**	15**	††	IU
INFO 564	Prototyping for Interactive Systems	**[R]**	5	†	IU
INFO 543	Usability and Evaluative Methods for HCI	**[R]**	8	†	IU
HCI 680	HCI Professional Practice 1 (*Capstone*)	**[R]**	15	†	IU
HCI 681	HCI Professional Practice 2 (*Capstone*)	**[R]**	15	†	IU

INFO 694	Thesis in HCI	**[R]**	3	†	IU
INFO 624	HCI Seminar I	**[P]**	8	†	IU
INFO 634	HCI Seminar 2	**[P]**	3	†	IU
INFO 694	Graduate Thesis / Research	**[R]**	7	†	IU
INFO 790	Research Rotations	**[P] [R]**	8	n/a	IU
HCI 890	Dissertation Research	**[P] [R]**	5	n/a	IU
T 519	Human Factors of Interface Design		8	††	PU

Digital Media & Computer Graphics

COURSE#	COURSE TITLE	SIZE	NEW/REV	UNIVERSITY
N499	New Media Capstone Research Project	4	n/a	IU
N450	Usability Principles for New Media Interfaces	18	†	IU
N420	Multimedia Project Development	16	††	IU
N100	Introduction to Digital Media Principles	80	††	IU
N500	Foundations of Digital Arts Production	18	††	IU
I554	Special Study in Computer-Mediated Com	5	†	IU
T115	Introduction to Illustration	37	††	PU
T203	Technical Graphics	38	††	PU
T203	Publishing I: Page Layout and Design	30	††	PU
T103	Publishing II: Basic Techniques	35	††	PU
T111	Design for Visualization and Communication	120	††	PU
T256	Human Computer Interaction Theory and Design	15	††	PU

ADVISING / MENTORING IN THE BIOMEDICAL AND HEALTH SCIENCES

Ph.D. Dissertation and/or Research Advising

STUDENTS	DATES	DEPT / SCHOOL	RESEARCH AREA OR DISSERTATION
Maryam Zolnoori	2015-17	U of Wisconsin Dept. of Informatics	Health Informatics: Exploring drug side-effects for depression in online healthcare communities: Examination of health & 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

MS Health Informatics Students

STUDENTS	DATES	SCHOOL	THESIS RESEARCH AREA
Kate Greenhill	2016-18	UIC	Visualizing Disease: An Aid to Physician-Family Communication
Titilola Akinyemi	2019-Fall	UIC	Opportunities & Challenges of Patient-Wearable Technology in In/Out-Patient Care
Amanda Bagus	2019-Fall	UIC	Mobile Health Applications for the Informal Caregiver: Impact on Elderly Treatment
Gregory Briddick	2019-Fall	UIC	Leveraging administrative data for identification of patients with possible Sepsis…
Ravin Ellis	2019-Fall	UIC	Improving Patient Care Using EMR systems in community pharmacies
Chris Hannon	2019-Fall	UIC	Alert Fatigue Related to Smart Infusion Pumps within the Inpatient Setting…
Haily Hopkins	2019-Fall	UIC	How telemedicine reduces hospitalizations in COPD patients
Annam Itteera	2019-Fall	UIC	The Impact of Mobile Health Monitoring on Diabetes Management
Lauren Krienert	2019-Fall	UIC	Consumer Health Informatics Tools to Improve Health Literacy
Vladana Nikolic	2019-Fall	UIC	Consumer Use of Mobile Healthcare Tech. for Cardiovascular Disease Mngmt…
Ambrish Sharma	2019-Fall	UIC	Using Quick Response Code Technology for Patient ID for Appointment Check-In…
Kirsten Staley	2019-Fall	UIC	Impacts of Anesthesia Biomedical Monitor. Devices on Patient Safety in an Integrated…
Jessica Watkin	2019-Fall	UIC	Telemedicine and Big Data Analytics for better Chronic Disease Mngnt in the US
Will Weider	2019-Fall	UIC	Patient Safety Event Management and Human Factors IT
Vicki Wortmann	2019-Fall	UIC	Efficacy of Smartphone Apps for Mental Health

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ADVISING / MENTORING IN
HUMAN CENTERED COMPUTING

Ph.D. Dissertation and/or Research Advising

STUDENTS	DATES	DEPT /SCHOOL /	RESEARCH AREA OR DISSERTATION
Christine Newlon	2010-16	IU-SoIC / HCC	Building the mega-collaboration interface
Afarin Pirzadeh	2010-12	HCC/HCI/SoIC	Emotion Communication
Jennifer Palilonis	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

Thesis and/or Capstone Mentoring & Advising

Indiana University: HCI / Informatics Students

NAME	YEAR	CAPSTONE PROJECT TITLE
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 lderhami	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	"	"
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
Christopher Lee	2008-09	Mask Commun. of Afr.-Amer: Interpretive Interactions Online
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
Avery Nelson	2006-09	Info. Computerization: Investigating the Prod. Paradox
Keith Rodewald	2003-04	TrendVendor: An E-Commerce Web App Employing Data…
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
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…
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
Keith Rodewald	Primary Advisor	2003-04	Spring

Master's and Ph.D. Students — Special Projects Advising, with Project/Thesis Titles

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.

Curricula and Program Development (*1998—2016*)

Indiana University—Indianapolis, *Luddy School of Informatics, Computing, and Engineering*

Human-Computer Interaction Graduate Programs
As founding Director of the HCI Program (2003-13), 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)

Research Team Mentoring: 2013—Present
(*PhD, MS, BS Students and Visiting Scholars*)

Student Name	Level	Discipline	Core Contribution to Team	Citizenship
2024 — at UC				
George Nimoh	PhD	Nursing PhD	Health/clinical information experience	Kenya
2020-2024 – at UK				
Saira Soroya	Visiting Scholar	Health Information & Library Science	Health information/library science, Health literacy, research methods, statistical analysis	Pakistan
Salman Naeem	Visiting Scholar	Health Information & Library Science	Health information/library science, Health literacy, research methods, statistical analysis	Pakistan
Sarah Pava	PhD	Biomed. Engineer.	Game design, HCI, product development	Columbia
Sheridan Schrader	BS	Health Sciences	Health sciences, research methods	USA
Max Burch	BS	Health Sciences	Health sciences, research methods	USA
Sabrina Piekarski	BS	Health Sciences	Health sciences, research methods	USA
Gabriella Tenuta	BS	Health Sciences.	Health sciences, research methods	USA
Samantha Lenox	BS	Health Sciences.	Health sciences, research methods	USA
2016-2020 – at UIC				
Mary Bloodworth	PhD	Health Informatics	HCI, product design, data collection, pubs	USA
Hoang Minh	PhD	Computer Science	HCI, product development	Viet Nam
Ilyasse Belkacem	PhD	Computer Science	HCI, product develop./data collection, pubs	Algeria
Dani Bergey	MS	Biomed. Visualiz.	HCI, prototype design	USA
Alexandria Dirico	BS	Psychology/Honors	Usability testing, paper editing	USA
Haleh Vatani	PhD	Health Informatics	Health informatics, product innovation & testing	Canada
Emma Chai	MS	Biomed. Visualiz.	HCI, product development	China
Kate Greenhill	MS	Biomed. Visualiz.	Interaction Design and Prototype Develop	USA
Manjula Bhuma	MS	Health Informatics	Product design, data collection and Analysis	India
Alexandria Dirico	BS	Psychology	Usability testing, paper editing	USA
Maryam Zolnoori	PhD	Health Informatics	Data collection, analysis, and pub creation	Iran
Kate Greenhill	MS	Biomed. Visualiz.	Interaction Design and Prototype Develop	USA
Manjula Bhuma	MS	Health Informatics	Product design, data collection and Analysis	India
2013-16 – at IU				
Yamini Karanam	PhD	HCI	HCI/prototyping, data collection/analysis, pubs	India
Preethi Srinavas	PhD	HCI	HCI/prototyping, data collection/analysis, pubs	India
Luiz Cavalcanti	PhD	HCI	HCI, data collection/analysis, pubs	Brazil
Deb Strzeszkowski	MS	HCI	HCI, usability testing, data collection/analysis	USA
Kate Ansah-Koi	MS	HCI	HCI, usability testing, data collection/analysis	Ghana
Thomas Andrew	MS	HCI	Usability testing, paper editing	USA
Nomaan Ahgharian	MS	HCI	HCI, product develop. usability, data collection	USA
Coltin Metzger	MS	Media Arts	Usability testing, paper editing	USA
Mikaylah Gross	BS	Business	Usability testing, data collection/analysis, pubs	USA
Yamini Karanam	PhD	HCI	HCI/prototyping, data collection/analysis, pubs	India
Preethi Srinavas	PhD	HCI	HCI/prototyping, data collection/analysis, pubs	India
Luiz Cavalcanti	PhD	HCI	HCI, data collection/analysis, pubs	Brazil
Milka Trajkova	MS	HCI	HCI, usability testing, data collection/analysis	USA
Jamee Malan	MS	Nursing	Data collection/analysis	USA
Ryan Ahmed	MS	HCI	HCI, usability testing, data collection/analysis	India
Soumya Dash	MS	HCI	HCI, usability testing, data collection/analysis	India
Yamini Karanam	PhD	HCI	HCI/prototyping, data collection/analysis, pubs	India
Preethi Srinavas	PhD	HCI	HCI/prototyping, data collection/analysis, pubs	India
Milka Trajkova	MS	HCI	HCI, usability testing, data collection/analysis	USA
Soumya Dash	MS	HCI	HCI, prototyping, usability testing	India
Olesia Koval	MS	HCI	HCI, usability testing, data collection/analysis	Russia
Rebecca Finch	MS	Media Arts	Usability testing, data collection/analysis	USA

SERVICE

University Service

Departmental and College/School Committee Work

YEARS	ROLE	COMMITTEE NAME / SCHOOL / UNIVERSITY
2021—23	Member	Departmental Faculty Search Committee, College of Health Sciences, UK
2020—21	Member	Dean's Executive Committee, College of Health Sciences, UK
2020—	Member	Institute of Biomedical Informatics Steering Committee, UK
2016—19	Member	PhD Oversight Committee, UIC
2016—19	Member	Academic Affairs Committee, UIC
2015—19	Chair	Program Director's Committee, UIC
2015—19	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

2024—25   University Cincinnati Cancer Center Grant Committee
2015—16   University Faculty Affairs, IUPUI
2008—09   Plater Senior Advisory Board (Focus: RISE Imitative)
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

Conference Administrative Service

2019-20   Human Factors in Health, 2020 HFES Symposium, Toronto, Canada, **Co-Chair**
Track: Mobile Health
Co-Chair: Plinio Morita, Ph.D., School of Public Health & Health Systems, U of Waterloo

2018   Digital Transformation & Global Society 2018 Conf., St. Petersburg, Russia, **Co-Chair**
Session: Advances in Cyberpsychology
Co-Chair: Alexander Voiskounsky, Moscow State University, College of Psychology

2011   HCI International Conference 2011, Orlando, FL, **Co-Chair**
Session Title: Communication Issues and the User Experience: Branding, Content Design and Semiotics;
Thematic Area: Design, User Experience, and Usability;
Session Co-Chairs: Anthony Faiola, Indiana University SoIC, HCI Program; Davide Bolchini, Indiana University School of SoIC, HCI Program

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	13th 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	14th 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	13th 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	12th Inter. Conf. on Information Visualization, London, UK, **Symposium Chair** Human-Computer Interaction Symposium; Symposium Title: Visualization and Interaction Design; Session Co-C hairs: Anthony Faiola, Indiana University SoIC, Indianapolis; Dennis Groth, Indiana University SoIC, Bloomington
2005	11th 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

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 SGICHI, Selection Committee, SIGCHI Distinguished Speakers List.

Conference Peer Reviewer (*Editor of some session papers*)th
2013   ACM CHI 2013: Computer Human Interaction: International Conference: One of a CHInd
2011   HCI International Conference 2011, Orlando, FL. Communication Issues and the User Experience: Branding, Content Design and Semiotics (Area: Design, User Exp., and Usability)
2011   HCI International Conference 2011, Orlando, FL. Social Spaces for Virtual Gameplay and Learning – New Inquiries (Thematic Area: Online Communities and Social Computing)
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 / editor of session papers.

2003   Second Annual (ACM SIGCHI) Pre-ICIS HCI/MIS Workshop, Association for Information Systems, Program Committee Member and Paper reviewer.

AWARDS

2016   AMIA 2016: American Medical Informatics Association, *Distinguished Reviewer Award*

2013   Dedicated Service Award, *for outstanding service as* Executive Associate Dean, Indiana University

2004   Who's Who among America's Teachers, Nominated Honor

2003   IU Board of Trustees Excellence in Teaching Award, Indianapolis, IN

REFERENCES & NOTES

1   This is the newly updated title of the school since 2023 based on the donor Fred Luddy.

2   (Specialization)—Social Science: Sociocultural / Behavioral Psychology, Cognitive Modeling of Information Technology.

3   (Specialization)—Communication Design: Human Factors and Interactive Media Learning Systems.

4   (Focus)—Certificate of Participation for all workshops and training programs.

5   (AAMI) —The Association for the Advancement of Medical Instrumentation® is a nonprofit organization founded in 1967. It is a diverse community of more than 9,000 professionals united by one important mission— the development, management, and use of safe and effective health technology. https://www.aami.org/

6   NIH and Team Science: See: NIH/NCI and Collaboration and Team Science.

7   American Cancer Society (PI and Team Principle, similar to NSF Co-PI): PI serves as the team leader and primary point of contact for the ACS Extramural Research Staff, ensures the team complies with the terms of the award, and oversees all organization assurances and certifications. (no multi- or co-PIs allowed); Team Principal: Leads a component of the research based on their area of expertise, together with Lead PI, shares authority for scientific leadership. (ACS Link)

8   **NIH (PI or Multiple PIs or CoPI):** All PD/PIs have equal responsibility and accountability for leading and directing the project. …All PD/PIs must be qualified to serve as PD/PIs and will share responsibility for the project. Although the PD/PIs may identify a leader of the project or a coordinator of the overall team, that is not a role that NIH formally acknowledges**. (NIH Link)**

9   This NSF funded research addresses the global epidemic of diabetes mellitus types 1 and 2, as well as related physiological complications stemming from severe hypoglycemia (HYPO). HYPO detection relies on analyzing blood glucose levels through continuous monitoring, saliva, urine, and skin pricking—all of which have limited accuracy. Diabetes-alert dogs (DADs) are trained to detect HYPO by smelling volatile organic compounds (VOCs) in human breath. Patients with DADs have demonstrated more accurate and faster detection than those methods noted. In this research, we developed a HYPO warning and data delivery system, referred to as HYPOalert that uses a nanosensor that mimics a canine's ability to detect HYPO from VOCs in human breath. The sensor outputs data integers from 1 to 10 (via Bluetooth) to a smartphone app, which provides numeric and data visualizations along with HYPO alerts that warn patients when they are approaching or in HYPO. Three prototype iterations have been completed and tested.

10 **Faiola, A.,** Vatani, H., & Agarwal, M. (2019). Hypoglycemic Detection by Human Breath: A Mobile Health Application that Alerts Diabetics of Low Blood Glucose, Special Edition on Smart Coaching Solutions for Health and Wellbeing, Journal of EAI Transactions on Ambient Systems, Special Issue: Smart Coaching Solutions for Health and Well-Being. https://eudl.eu/doi/10.4108/eai.23-3-2018.162220