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 Department of Informatics  
 Indiana University Bloomington  
 Bloomington, IN 47408-3912

**RESEARCH INTERESTS**

My research focuses on the study of sociotechnical systems and mechanisms to enhance physical and mental wellbeing and to facilitate civic engagement and environmental stewardship. I utilize mixed methods approaches to tackle research problems in online and geographic communities. Specifically, my current research focuses on leveraging the awareness of individual and community activities embedded in sensor technologies, smart devices, social media, and online forums in the design, prototyping, and deployment of novel personal health informatics interfaces and civic engagement platforms.

**EDUCATION****University of California, Irvine**

Ph.D. Information and Computer Science 2006 – 2011  
 Dissertation Committee: Gary M. Olson, David F. Redmiles, and Gina Venolia

**Carnegie Mellon University**

M.S. Information Networking 2003 – 2005  
 Thesis Committee: Priya Narasimhan and Rajeev Gandhi

**University of California, Los Angeles**

B.S. Computer Science and Engineering (cum laude) 2000 – 2003  
 Research Advisors: Lixia Zhang and Milos Ercegovac

**HONORS AND AWARDS**

European Exhibition of Creativity and Innovation Conference (Euroinvent) Silver Medal Award [BC.2]	2017
ACM CHI Special Recognitions for Exceptional Reviews	2017
IU Office of Mentoring Services & Leadership Development Award	2017
IU Project and Research Symposium “Most Potential for Social Good” Award [INFO I527 & CSCI P535]	2017
IU Project and Research Symposium “People’s Choice” Award [INFO I527 & CSCI P535]	2017
Andrew W. Mellon Foundation Faculty Fellowship	2016 – 2017
ACM CSCW Special Recognitions for Exceptional Reviews	2016
Consortium for the Science of Sociotechnical Systems (CSST) Fellowship	2016
ACM CHI Best Paper Honorable Mention Award (top 5%) [C.15]	2015
iConference Best Paper Award Nomination (top 3%) [C.14]	2015
1000 Pitches Summit finalist in “Mobile Apps” category (top 9 out of 1083) [IST 413]	2014
ACM CHI Best Paper Honorable Mention Award (top 5%) [C.8]	2014
DoED Graduate Assistance in Areas of National Need (GAANN) Fellowship	2008 – 2010
UC Irvine Chancellor’s Fellowship	2006 – 2010
IBM Service Science, Management and Engineering (SSME) Certificate	2007
CMU Best Teaching Assistant Award Nomination	2004 – 2005
CMU Information Networking Institute Scholarship	2003 – 2005
Golden Key International Honour Society	2003
UCLA Paul Sandager Alumni Scholarship	2002
UCLA University Scholarship	2002
Eta Kappa Nu International Electrical and Computer Engineering Honor Society	2001
Tau Beta Pi National Engineering Honor Society	2001
UCLA Dean’s Honor List	2001
Stanford National Invitational Congress Debate Finalist	1999
US FIRST Robotic Team Award	1998

## EXPERIENCE

**Indiana University Bloomington**

Affiliated Faculty, Data Science Program Since 2017  
 Assistant Professor, Department of Informatics Since 2016  
 Affiliated Faculty, Department of Information and Library Science  
 Part-time Assistant Professor, Computer Science Department, DePauw University  
 Director, Societal Computing Lab (SOCO) Since 2015  
 Affiliated Faculty, Center for the Integrative Study of Animal Behavior (CISAB)  
 Affiliated Faculty, Indiana University Network Science Institute (IUNI)  
 Affiliated Faculty, Institute for Digital Arts and Humanities (IDAH)  
 Affiliated Faculty, Center of Excellence for Women in Technology (CEWiT)  
 Affiliated Faculty, Institute for Software Research (ISR), University of California, Irvine  
 Fellow, Center for Computer-Mediated Communication (CCMC)  
 Fellow, Minority Serving Institution Faculty Research Development Institute (MSI)  
 Fellow, National Center for Faculty Development & Diversity (NCFDD)  
 Fellow, Consortium for the Science of Sociotechnical Systems (CSST) Summer 2016  
 Assistant Professor, Department of Information and Library Science 2015 – 2016

**The Pennsylvania State University**

Research Associate and Lecturer (Graduate Faculty), College of Information Sciences and Technology 2012 – 2015  
 Affiliated Faculty, Center for Human-Computer Interaction  
 Supervisor: John M. Carroll

**University of California, Irvine**

Graduate Researcher, Hana Lab / Behavior Lab 2008 – 2011  
 Graduate Researcher, Collaboration Research in Action, Design, and Learning Lab 2006 – 2008  
 Advisors: Gary M. Olson and David F. Redmiles

**Microsoft Research**

Research Intern, Visualization and Interaction for Business and Entertainment (VIBE) Group,  
 Redmond, WA Summer 2010  
 Supervisor: Gina Venolia

**IBM Research**

Research Intern, User Systems and Experience Research (USER) Group,  
 Almaden Research Center, San Jose, CA Summer-Fall 2008  
 Supervisor: Tessa Lau  
 Extreme Blue Intern, Component Systems Group,  
 Thomas J. Watson Research Center, Hawthorne, NY Summer 2007  
 Supervisor: Paul P. Maglio  
 Research Developer, User Systems and Experience Research (USER) Group,  
 Almaden Research Center, San Jose, CA 2006  
 Supervisor: John J. Barton  
 WBI Tools Developer & Performance Analyst,  
 Websphere Business Integration Performance and Development Division, Austin, TX Summer-Fall 2005  
 Extreme Blue Intern, User Systems and Experience Research (USER) Group,  
 Almaden Research Center, San Jose, CA Spring 2005  
 Supervisor: John J. Barton  
 Software Developer Intern—Test Tool Development, Printing Systems Division, Boulder, CO Summer 2004

**Carnegie Mellon University**

Graduate Researcher, Proactively Reconfigurable, Adaptive, Reliable Middleware Lab 2003 – 2005  
 Advisors: Priya Narasimhan and Rajeev Gandhi

**University of California, Los Angeles**

Undergraduate Researcher, Internet Research Lab 2002 – 2003  
 Undergraduate Researcher, Digital Arithmetic and Reconfigurable Architecture Laboratory 2001 – 2002  
 Advisors: Lixia Zhang and Milos D. Ercegovac  
 Lab Consultant and Technical Support, UCLA Engineering SEASnet Computing Facility 2001 – 2003

**MSC.Software**

Mainframe Systems Intern, High Performance Computing Division, Santa Ana, CA Summer 2002

## FUNDING

## External Grants

- [EG.11] Templeton World Charity Foundation. 2018-2019. Teaching in wild New Caledonian crows. PI: Natalie Uomini; Co-PI: **Patrick C. Shih**. \$205,215.
- [EG.10] Andrew W. Mellon Foundation Faculty Fellowship 2016-2017. *Understanding cross-cultural differences of crowd work in U.S., Taiwan, and China*. PI: **Patrick C. Shih**. \$20,000.
- [EG.9] U.S. National Park Service. 2015-2016. *Population monitoring, seasonal activity, and landscape movements of little brown myotis (*Myotis lucifugus*) in Yellowstone National Park*. PI: John Treanor; Co-PIs: Joe Johnson, Jessica Kropczynski, & **Patrick C. Shih**. \$60,000.
- [EG.8] Yellowstone Park Foundation. 2015-2016. *Bat ecology and movements in Yellowstone National Park*. PI: John Treanor; Co-PIs: Joe Johnson, Jessica Kropczynski, & **Patrick C. Shih**. \$50,000.
- [EG.7] Bloomberg Financial Products UX Research Awards. 2015-2016. *End-user configurable tools for integrating discussions of trending financial news*. PI: John M. Carroll; Co-PI: **Patrick C. Shih**. \$135,000.
- [EG.6] Next Century Corporation Technology Innovation Grant. 2014-2015. PI: **Patrick C. Shih**. \$2,000.
- [EG.5] National Science Foundation. 2012-2016. *HCC: Small: Socio-technical Issues in Mobile Time Banking*. PI: John M. Carroll; Key Personnel: **Patrick C. Shih**. \$529,553.
- [EG.4] National Science Foundation. 2009-2013. *VOSS: Designing Effective Virtual Organizations*. PI: John M. Carroll; Key Personnel: **Patrick C. Shih**. \$397,913.
- [EG.3] National Science Foundation. 2010-2013. *VOSS: Next Steps in Articulating Success Factors for Distributed Collaborations*. PI: Gary M. Olson; Co-PI: Judith Olson; Key Personnel: **Patrick C. Shih**. \$399,336.
- [EG.2] National Science Foundation. 2009-2012. *VOSS: Enabling Trust in Virtual Teams for Increased Innovation and Effectiveness*. PI: David F. Redmiles; Key Personnel: **Patrick C. Shih**. \$399,829.
- [EG.1] National Science Foundation. 2005-2009. *Unifying Formal and Informal Collaboration through Continuous Coordination*. PI: David F. Redmiles; Co-PI: Adriaan van der Hoek; Key Personnel: **Patrick C. Shih**. \$681,402.

## Internal Grants

- [IG.10] Indiana University Collaborative Research Grants. 2018-2019. A Randomized Control Trial to Assess the Efficacy of a Gamified Mobile Application Intervention to Increase Physical Activity and Reduce Anxiety in Adults with Autism Spectrum Diagnoses (ASD). PI: **Patrick C. Shih**. Co-PIs: Georgia Frey and Scott Bellini. \$74,971.
- [IG.9] IUB New-Frontiers New Currents Funding Award. 2017-2018. Stories of War: A Symposium on Conflict and Civic Engagement. PI: **Patrick C. Shih**. \$19,768.
- [IG.8] IUB Groups STEM Summer Research Experience Program. 2017. *Perception of Smart Dog Technologies in Domestic Settings*. PI: **Patrick C. Shih**. \$2,000.
- [IG.7] IUB Collaborative Research and Creative Activity Funding Award. 2017-2018. *Just Like Me”: Stories from All Sides of the Vietnam War*. PI: **Patrick C. Shih**. \$20,000.
- [IG.6] IUB Groups STEM Summer Research Experience Program. 2016. *Impact of initial trust on video-mediated social support*. PI: **Patrick C. Shih**. \$1,000.
- [IG.5] Penn State Center for Online Innovation in Learning Research Initiation Grant. 2015-2016. *Occupy MOOCs: Understanding and designing for actual student motivations and activities in MOOCs*. PI: John M. Carroll; Co-PIs: Mary Beth Rosson and **Patrick C. Shih**. \$49,082.
- [IG.4] Penn State Schreyer Institute for Teaching Excellence Teaching Project Grant. 2014-2015. *Supporting Technology Augmented Rhetoric (STAR)*. PI: **Patrick C. Shih**; Co-PI: Jessica Kropczynski. \$5,000.
- [IG.3] Penn State Summer Undergraduate Research Fellowship. 2014). *Using Smartphones as sensing infrastructure at large festivals*. PI: **Patrick C. Shih**. \$1,000.
- [IG.2] Penn State Center for Online Innovation in Learning Research Initiation Grant. 2013-2014. *Supporting Dialectical Learning with Piazza*. PI: John M. Carroll; Co-PI: **Patrick C. Shih**. \$42,000.
- [IG.1] Penn State Summer Undergraduate Research Fellowship. 2013. *Supporting dialectical learning with Piazza*. PI: **Patrick C. Shih**. \$1,000.

## PUBLICATIONS

Google Scholar:

[https://scholar.google.com/citations?hl=en&user=Lzw8EnkAAAAJ&pagesize=100&view\\_op=list\\_works](https://scholar.google.com/citations?hl=en&user=Lzw8EnkAAAAJ&pagesize=100&view_op=list_works)

ResearchGate: [https://www.researchgate.net/profile/Patrick\\_Shih](https://www.researchgate.net/profile/Patrick_Shih)

## Journal Papers

- [J.13] Shengnan Yang, Pei-Ying Chen, **Patrick C. Shih**, Jeffrey Bardzell, and Shaowen Bardzell. 2017. Cross-Strait Frenemies: Chinese Netizens VPN in to Facebook Taiwan. *Proceedings of the ACM on Human-Computer Interaction* 1, CSCW, Article 115 (Nov. 2017), 22 pages. (27% acceptance rate).
- [J.12] John M. Carroll, **Patrick C. Shih**, Kyungsik Han, and Jessica Kropczynski. 2017. Coordinating community cooperation: Integrating timebanks and nonprofit volunteering by design. *International Journal of Design* 11, 1 (Apr. 2017), 51-63. ISSN: 1991-3761.
- [J.11] Jonathan K. Nelson and **Patrick C. Shih**. 2017. CompanionViz: Mediated platform for gauging canine health and enhancing human-pet interactions. *International Journal of Human-Computer Studies* 98 (Feb. 2017), 169-178. <http://dx.doi.org/10.1016/j.ijhcs.2016.04.002>
- [J.10] Chase McCoy and **Patrick C. Shih**. 2016. Teachers as producers of data analytics: A case study of a teacher-focused educational data science program. *Journal of Learning Analytics* 3, 3 (Dec. 2016), 193-214. <http://dx.doi.org/10.18608/jla.2016.33.10>
- [J.9] Kyungsik Han, **Patrick C. Shih**, Mary Beth Rosson, and John M. Carroll. 2016. Understanding local community attachment, engagement and social supported networks mediated by mobile technology. *Interacting with Computers* 28, 3 (May 2016), 220-237. <http://dx.doi.org/10.1093/iwc/iwu040>
- [J.8] John M. Carroll, Yu Wu, **Patrick C. Shih**, and Saijing Zheng. 2016. Re-appropriating a Question/Answer system to support dialectical constructivist learning activity. *Educational Technology Research and Development* 64, 1 (Feb. 2016), 137-156. <http://dx.doi.org/10.1007/s11423-015-9405-6>
- [J.7] Jing Wang, **Patrick C. Shih**, Yu Wu, and John M. Carroll. 2015. Comparative case studies of open source software peer review processes. *Information and Software Technology* 67 (Nov. 2015), 1-12. <http://dx.doi.org/10.1016/j.infsof.2015.06.002>
- [J.6] **Shih., P. C.**, Kyungsik Han, and John M. Carroll. 2015. Using social multimedia content to inform emergency planning and management of recurring and cyclical events in local communities. *Journal of Homeland Security and Emergency Management* 12, 3 (Sep. 2015), 627-652. <http://dx.doi.org/10.1515/jhsem-2014-0071>
- [J.5] Jing Wang, **Patrick C. Shih**, and John M. Carroll. 2015. Life after weight loss: Design implications for community-based long-term weight management. *Computer Supported Cooperative Work* 24, 4 (Aug. 2015), 353-384. <http://dx.doi.org/10.1007/s10606-015-9226-5>
- [J.4] John M. Carroll, **Patrick C. Shih**, and Jessica Kropczynski. 2015. Community informatics as innovation in sociotechnical infrastructures. *Journal of Community Informatics* 11, 2 (Jun. 2015), 17 pages. ISSN: 1712-4441.
- [J.3] Kyungsik Han, **Patrick C. Shih**, Victoria Bellotti, and John M. Carroll. 2015. It's time there was an app for that too: A usability study of mobile timebanking. *International Journal of Mobile Human-Computer Interaction* 7, 2 (Jun. 2015), 1-22. <http://dx.doi.org/10.4018/ijmhci.2015040101>
- [J.2] Jing Wang, **Patrick C. Shih**, and John M. Carroll. 2015. Revisiting Linus's Law: Benefits and challenges of open source software peer review. *International Journal of Human-Computer Studies* 77 (May 2015), 52-65. <http://dx.doi.org/10.1016/j.ijhcs.2015.01.005>
- [J.1] Kyungsik Han, **Patrick C. Shih**, and John M. Carroll. 2014. Local News Chatter: Augmenting community news by aggregating hyperlocal microblog content in a tag cloud. *International Journal of Human-Computer Interaction* 30, 12 (Sep. 2014), 1003-1014. <http://dx.doi.org/10.1080/10447318.2014.925773>

## Book Chapters

- [BC.4] **Patrick C. Shih**. 2018. Beyond Human-in-the-Loop: Empowering End-users with Transparent Machine Learning. In *Human and Machine Learning: Visible, Explainable, Trustworthy, and Transparent*, Jianlong Zhou and Fang Chen (Eds.). Springer, 37-54.
- [BC.3] John M. Carroll, **Patrick C. Shih**, Jessica Kropczynski, Guoray Cai, G., Mary Beth Rosson, and Kyungsik Han. 2017. The Internet of places at community-scale: Design scenarios for hyperlocal neighborhood. In *Enriching Urban Spaces with Ambient Computing, the Internet of Things, and Smart City Design*, Shin'ichi Konomi and George Roussos (Eds.). IGI Global, 1-24.
- [BC.2] Joslenne Pena, **Patrick C. Shih**, and Mary Beth Rosson. 2016. Instructors as end-user developers: Technology usage opportunities in the inverted classroom. In *Handbook of Applied Learning Theory and Design in Modern Education*, Elena Railean, Gabriela Walker, Atilla Elçi, and Liz Jackson (Eds.). IGI Global, 560-571. **[European Exhibition of Creativity and Innovation Conference (Euroinvent) Diploma and Silver Medal Award]**

- [BC.1] John M. Carroll, **Patrick C. Shih**, Blane Hoffman, Jing Wang, and Kyungsik Han. 2014. Presence and hyperpresence: Implications for community awareness. In *Interacting with Presence: HCI and the Sense of Presence in Computer-Mediated Environments*, Giuseppe Riva, John Waterworth, and Dianne Murray (Eds.). De Gruyter Open, 70-82.

### Proceedings

- [CP.1] Starr Roxanne Hiltz, Mark S. Pfaff, Linda Plotnick, and **Patrick C. Shih** (Eds.). *ISCRAM 2014 Conference Proceedings Book of Papers – 11th International Conference on Information Systems for Crisis Response and Management*. The Pennsylvania State University, State College, PA. ISBN 978-0-692-21194-6.

### Conference Papers

- [C.31] Tom Ongwere, Gabrielle Cantor, Ramirez Sergio, **Patrick C. Shih**, James Clawson, and Kay Connelly. 2018. Design Hotspots for Care of Discordant Chronic Comorbidities: Patients' Perspectives. In *Proceedings of the Nordic Conference on Human-Computer Interaction (NordiCHI '18)*. ACM Press.
- [C.30] Daehyoung Lee, Georgia Frey, Alison Cheng, and **Patrick C. Shih**. 2018. Puzzle Walk: A Gamified Mobile App to Increase Physical Activity in Adults with Autism Spectrum Disorder. In *Proceedings of the International Conference on Virtual Worlds and Games for Serious Applications (VS-GAMES '18)*. IEEE Press.
- [C.29] Gege Gao, Yuxuan Zhang, Yi Bu, and **Patrick C. Shih**. 2018. Design Exploration on Home Robots to Support Single Women at Home in China. In *Proceedings of the International Conference on Robot and Human Interactive Communication (RO-MAN '18)*. IEEE Press.
- [C.28] Gege Gao and **Patrick C. Shih**. 2018. Does Platform Matter? A Game Design Analysis of Female Engagement in MOBA Games. In *Proceedings of the Digital Games Research Association Conference (DiGRA '18)*. DiGRA Digital Library. (50% acceptance rate)
- [C.27] Juan F. Maestre, Haley MacLeod, Ciabhan L. Connelly, Julia C. Dunbar, Jordan Beck, Katie Siek, and **Patrick C. Shih**. 2018. Defining Through Expansion: Conducting Asynchronous Remote Communities (ARC) Research with Stigmatized Groups. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '18)*. ACM Press, Paper 557, 13 pages. (26% acceptance rate).
- [C.26] Anna N. Baglione, Maxine M. Girard, Meagan Price, James Clawson, and **Patrick C. Shih**. 2018. Modern Bereavement: A Model for Complicated Grief in the Digital Age. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '18)*. ACM Press, Paper 416, 12 pages. (26% acceptance rate).
- [C.25] Hong Qiao and **Patrick C. Shih**. 2018. Use of Social Media for Academic Purpose in China. In *Proceedings of the International Symposium of Chinese CHI (ChineseCHI '18)*. ACM Press. (52% acceptance rate).
- [C.24] Aehong Min, Daehyoung Lee, and **Patrick C. Shih**. 2018. Potentials of Smart Breathalyzer: Interventions for Excessive Drinking Among College Students. In *Proceedings of the iConference (iConf '18)*, Lecture Notes in Computer Science (LNCS 10766). Springer, 195-206. (30% acceptance rate).
- [C.23] Juan F. Maestre and **Patrick C. Shih**. 2017. Impact of Initial Trust on Video-Mediated Social Support. In *Proceedings of the Australian Conference on Computer-Human Interaction (OZCHI '17)*. ACM Press, 328-336. (47% acceptance rate).
- [C.22] Gege Gao, Aehong Min, and **Patrick C. Shih**. 2017. Gendered Design Bias: Gender Differences of In-Game Character Choice and Playing Style in League of Legends. In *Proceedings of the Australian Conference on Computer-Human Interaction (OZCHI '17)*. ACM Press, 307-317. (47% acceptance rate).
- [C.21] Jeremiah Parry-Hill, **Patrick C. Shih**, Jennifer Mankoff, and Daniel Ashbrook. 2017. Understanding Volunteer AT Fabricators: Opportunities and Challenges in DIY-AT for Others in e-NABLE. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '17)*. ACM Press, 6184-6194. (25% acceptance rate).
- [C.20] Xianghua Ding, **Patrick C. Shih**, and Ning Gu. 2017. Socially embedded work: A study of wheelchair users performing online work in China. In *Proceedings of the ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW '17)*. ACM Press, 642-654. (35% acceptance rate).
- [C.19] Jin Y. Jang, Kyungsik Han, Dongwon Lee, Haiyan Jia, and **Patrick C. Shih**. 2016. Teens engage more with fewer photos: Temporal and comparative analysis on behaviors in Instagram. In *Proceedings of the ACM Conference on Hypertext and Social Media (HT '16)*. ACM Press, 71-81. (30% acceptance rate).
- [C.18] Joslenne Pena, **Patrick C. Shih**, and Mary Beth Rosson. 2016. Scenario-based design of technology to support teaching in inverted classes. In *Proceedings of the iConference (iConf '16)*. iSchools, 1-10. (30% acceptance rate).
- [C.17] **Patrick C. Shih**, Kyungsik Han, and John M. Carroll. 2015. Engaging community members with digitally curated social media content at an arts festival: A case study about leveraging crowd-sourcing for community heritage curation. In *Proceedings of the Digital Heritage International Congress (DH '15)*. IEEE Press, 321-324. (57% acceptance rate).

- [C.16] Jin Y. Jang, Kyungsik Han, **Patrick C. Shih**, and Dongwon Lee. 2015. Generation Like: Comparative characteristics in Instagram. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '15)*. ACM Press, 4039-4042. (23% acceptance rate).
- [C.15] **Patrick C. Shih**, Victoria Bellotti, Kyungsik Han, and John M. Carroll. 2015. Unequal time for unequal value: Implications of differing motivations for participation in timebanking. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '15)*. ACM Press, 1075-1084. (23% acceptance rate). **[Best Paper Honorable Mention Award (top 5%)]**
- [C.14] **Patrick C. Shih**, Kyungsik Han, Erika S. Poole, Mary Beth Rosson, and John M. Carroll. 2015. Use and adoption challenges of wearable activity trackers. In *Proceedings of the iConference (iConf '15)*. iSchools, 1-12. (36% acceptance rate). **[Best Paper Award Nomination (top 3%)]**
- [C.13] Saijing Zheng, Mary Beth Rosson, **Patrick C. Shih**, and John M. Carroll. 2015. Understanding student motivation, behaviors and perceptions in MOOCs. In *Proceedings of the ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW '15)*. ACM Press, 1882-1895. (28% acceptance rate).
- [C.12] **Patrick C. Shih**, Kyungsik Han, and John M. Carroll. 2014. Community Poll: Externalizing public sentiments in social media in a local community context. In *Proceedings of the AAAI Conference on Human Computation & Crowdsourcing (HCOMP '14)*. AAAI Press, 201-209. (32% acceptance rate).
- [C.11] Yu Wu, **Patrick C. Shih**, and John M. Carroll. 2014. Design for supporting dialectical constructivist learning activities. In *Proceedings of the International Conference on Education and New Learning Technologies (EDULEARN '14)*. IATED, 4156-4164.
- [C.10] Kyle Williams, Lichi Li, Madian Khabisa, Jian Wu, **Patrick C. Shih**, and C. Lee Giles. 2014. A web service for scholarly big data information extraction. In *Proceedings of the IEEE International Conference on Web Services (ICWS '14)*. IEEE Press, 105-112. (20% acceptance rate).
- [C.9] **Patrick C. Shih**, Kyungsik Han, and John M. Carroll. 2014. Community Incident Chatter: Informing local incidents by aggregating local news and social media content. In *Proceedings of the International Conference on Information Systems for Crisis Response and Management (ISCRAM '14)*. ISCRAM Association, 772-776. (56% acceptance rate).
- [C.8] Victoria Bellotti, Sara Cambridge, Karen Hoy, **Patrick C. Shih**, Lisa R. Handalian, Kyungsik Han, and John M. Carroll. 2014. Towards community-centered support for peer-to-peer service exchange: Rethinking the timebanking metaphor. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '14)*. ACM Press, 2975-2984. (23% acceptance rate). **[Best Paper Honorable Mention Award (top 5%)]**
- [C.7] Kyungsik Han, **Patrick C. Shih**, Mary Beth Rosson, and John M. Carroll. 2014. Enhancing community awareness and participation to local heritage with a mobile application. In *Proceedings of the ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW '14)*. ACM Press, 1144-1155. (27% acceptance rate).
- [C.6] Jana Schumann, **Patrick C. Shih**, David F. Redmiles, and Graham Horton. 2012. Supporting initial trust in distributed idea generation and idea evaluation. In *Proceedings of the ACM Conference on Supporting Group Work (GROUP '12)*. ACM Press, 199-208. (37% acceptance rate).
- [C.5] Benjamin Koehne\*, **Patrick C. Shih**\*, and Judith S. Olson. 2012. Remote and alone: Coping with being the remote member on the team. In *Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW '12)*. ACM Press, 1257-1266. (40% acceptance rate). **[\* These authors contributed equally to this work and are listed in alphabetical order]**
- [C.4] Norman M. Su and **Patrick C. Shih**. 2011. Virtual spectating: Hearing beyond the video arcade. In *Proceedings of the British Computer Society Conference on Human-Computer Interaction (BCS-HCI '11)*. ACM Press, 269-278. (29% acceptance rate).
- [C.3] **Patrick C. Shih**, Gina Venolia, and Gary M. Olson. 2011. Brainstorming Under Constraints: Why Software Developers Brainstorm in Groups. In *Proceedings of the British Computer Society Conference on Human-Computer Interaction Interaction (BCS-HCI '11)*. ACM Press, 74-83. (29% acceptance rate).
- [C.2] Leslie S. Liu, **Patrick C. Shih**, and Gillian R. Hayes. 2011. Barriers to the adoption and use of personal health record systems. In *Proceedings of the iConference (iConf '11)*. ACM Press, 363-370. (32% acceptance rate).
- [C.1] **Patrick C. Shih**, David H. Nguyen, Sen H. Hirano, David F. Redmiles, and Gillian R. Hayes. 2009. GroupMind: Supporting brainstorming through a collaborative mind-mapping tool. In *Proceedings of the ACM Conference on Supporting Group Work (GROUP '09)*. ACM Press, 139-148. (36% acceptance rate).

#### Extended Abstracts and Work-in-Progress Papers with Proceedings (Peer-Reviewed)

- [E.5] Saloni J. D. Vaghela and **Patrick C. Shih**. 2018. WalkSafe: College Campus Safety App. In *Proceedings of the International Conference on Information Systems for Crisis Response and Management (ISCRAM '18)*. ISCRAM Association.

- [E.4] Saijing Zheng, Mary Beth Rosson, **Patrick C. Shih**, and John M. Carroll. 2015. Designing MOOCs as interactive places for collaborative learning. In *Proceedings of the ACM Conference on Learning @ Scale (L@S '15)*. ACM Press, 343-346. (80% acceptance rate).
- [E.3] Yu Wu, Jessica Kropczynski, **Patrick C. Shih**, and John M. Carroll. 2014. Exploring the ecosystem of software developers on Github and other platforms. In *Proceedings of the Companion Publication of the ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW Companion '14)*. ACM Press, 265-268.
- [E.2] Kyungsik Han, **Patrick C. Shih**, and John M. Carroll. 2013. Aggregating community information to explore social connections. In *Proceedings of the AAAI Conference on Weblogs and Social Media: When the City Meets the Citizen Workshop (ICWSM '13)*. AAAI Press, 5-8.
- [E.1] Bill Tomlinson, Joel Ross, Paul Andre, Eric P. S. Baumer, Donald J. Patterson, Joseph Corneli, Martin Mahaux, Syavash Nobarany, Marco Lazzari, Birgit Penzenstadler, Andrew W. Torrance, David J. Callele, Gary M. Olson, M. Six Silberman, Marcus Stünder, Fabio R. Palamedi, Albert A. Salah, Eric Morrill, Xavier Franch, Florian F. Mueller, Joseph Kaye, Rebecca W. Black, Marisa L. Cohn, **Patrick C. Shih**, Johanna Brewer, Nitesh Goyal, Pirjo Näkki, Jeff Huang, Nilufar Baghaei, and Craig Saper. 2012. Massively distributed authorship of academic papers. In *Proceedings of the Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI EA '12)*. ACM Press, 11-20. (45% acceptance rate)

#### Workshop, Posters, and Demos without Proceedings (Lightly Peer-Reviewed)

- [W.14] **Patrick C. Shih**. 2018. Supporting Scientific Work Using End-User Data Analytics. Provocation presented at the *Decennial Sociotech Futures Symposium (CSST '18)*.
- [W.13] Tom Ongwere, Gabrielle Cantor, **Patrick C. Shih**, James Clawson, and Kay Connelly. 2018. Designing for Patients with Type-2 Diabetes and Discordant Chronic Comorbidities using ICDMI Model Guidelines. *Consumer Health Informatics in the Midwest (CHIM '18)*.
- [W.12] Aehong Min, Daehyoung Lee, Gege Gao, Anurag Jain, Pratik Jain, Stella Jeong, and **Patrick C. Shih**. 2018. Potentials of Smart Breathalyzer: Interventions for Excessive Drinking Among College Students. *Consumer Health Informatics in the Midwest (CHIM '18)*.
- [W.11] Juan F. Maestre and **Patrick C. Shih**. 2018. Conducting Research with the Stigmatized. *Consumer Health Informatics in the Midwest (CHIM '18)*.
- [W.10] Tom Ongwere, Gabrielle Cantor, Sergio Ramirez Martin, **Patrick C. Shih**, James Clawson, and Kay Connelly. 2017. Too Many Conditions, Too Little Time: Designing Technological Intervention for Patients with Type-2 Diabetes and Discordant Chronic Comorbidities. *Workshop on Interactive Systems in Health Care (WISH '17)*.
- [W.9] Aehong Min and **Patrick C. Shih**. 2017. Exploring New Design Factors for Electronic Interventions to Prevent College Students from Excessive Drinking by Using Personal Breathalyzers. *Workshop on Interactive Systems in Health Care (WISH '17)*.
- [W.8] Anna N. Baglione, Maxine M. Girard, Meagan Price, James Clawson, and **Patrick C. Shih**. 2017. Mobile Technologies for Grief Support: Prototyping an Application to Support the Bereaved. *Workshop on Interactive Systems in Health Care (WISH '17)*.
- [W.7] Julia C. Dunbar, Ciabhan L. Connelly, Juan F. Maestre, Haley MacLeod, Katie Siek, and **Patrick C. Shih**. 2017. Considerations for Using the Asynchronous Remote Communities (ARC) Method in Health Informatics Research. *Workshop on Interactive Systems in Health Care (WISH '17)*.
- [W.6] Lee Hiler, Brook Foulk, Christena Nippert-Eng, and **Patrick C. Shih**. 2017. Detecting Biological Samples Using Olfactory Sensors. Poster presented at the *Animal Behavior Conference*.
- [W.5] Kyungsik Han, Kristin Cook, and **Patrick C. Shih**. 2016. Exploring effective decision making through human-centered and computational intelligence methods. Poster presented at the *ACM Conference on Human Factors in Computing: Workshop on Human Centered Machine Learning (CHI '16)*.
- [W.4] **Patrick C. Shih** and Christena Nippert-Eng (2016, May). From Quantified Self to Quantified Other: Engaging the public on promoting animal well-being. *ACM Conference on Human Factors in Computing: Workshop on HCI Goes to the Zoo (CHI '16)*.
- [W.3] Sarah-Alice Hanna, Jessica Kropczynski, **Shih., P. C.**, and John M. Carroll. 2015. Using a mobile application to encourage community interactions at a local event. Poster presented at the *ACM Richard Tapia Celebration of Diversity in Computing Conference (TAPIA '15)*.
- [W.2] Kyungsik Han, **Patrick C. Shih**, Victoria Bellotti, and John M. Carroll. 2014. Timebanking with a smartphone application. Poster and demo presented at the *Collective Intelligence Conference (CI '14)*.
- [W.1] **Patrick C. Shih** and Gary M. Olson. 2009. Using visualization to support idea generation in context. *ACM Conference on Creativity and Cognition Conference: Workshop on Creativity and Cognition in Engineering Design (C&C '09)*.

**Patents**

- [PT.1] Kean G. Kuiper, Frank E. Levine, Enio M. Pineda, and **Patrick C. Shih**. 2010. Call stack sampling for a multi-processor system. *U.S. Patent and Trademark Office*, U.S. Patent No. 20100017583.

**Dissertation and Thesis**

- [D.2] **Patrick C. Shih**. 2011. *Brainstorming beyond the laboratory: Idea generation practices in software development firms*. University of California, Irvine. ProQuest/UMI No. 3490146.
- [D.1] **Patrick C. Shih**. 2005. *Fault-tolerance for distributed publish-subscribe systems*. Carnegie Mellon University. OCLC No. 320526509.

**Invited Presentations**

- [IP.14] “Combining personal data analytics and community-based interventions to support physical and mental wellbeing.” School of Computing and Information Systems, University of Melbourne. March 20, 2018.
- [IP.13] “Combining personal data analytics and community-based interventions to support physical and mental wellbeing.” School of Information Technology and Electrical Engineering, University of Queensland. March 14, 2018.
- [IP.12] “From Quantified Self to Quantified Other.” Department of Computer Science, The University of Texas Rio Grande Valley. October 27, 2017.
- [IP.11] “From Quantified Self to Quantified Other.” Law, Science and Technology Seminar Series, TC Beirne School of Law and School of Information Technology and Electrical Engineering, University of Queensland. June 5, 2017.
- [IP.10] “Toward Personalized Machine Learning: Fine-tuning Personalized Activity and Behavioral Data with End-User Interactive Visualization.” Pacific Northwest National Laboratory. June 23, 2016.
- [IP.9] “Temporal and Comparative Analysis of Teen and Adult Behaviors on Instagram.” Intelligent & Interactive Systems Talk Series, Indiana University Bloomington. April 27, 2016.
- [IP.8] “Supporting Civic Activities with Machine and Human Computation.” School of Computing, Clemson University. February 13, 2015.
- [IP.7] “Supporting Civic Activities with Machine and Human Computation.” Department of Information and Library Science, Indiana University Bloomington. February 4, 2015.
- [IP.6] “Supporting Civic Activities with Machine and Human Computation.” Department of Information Systems, University of Maryland, Baltimore County. January 17, 2015.
- [IP.5] “Supporting Civic Activities with Machine and Human Computation.” Department of Computer Science, University of Bath. January 5, 2015.
- [IP.4] “Supporting Civic Activities with Machine and Human Computation.” Institute of Information Systems and Applications, National Tsing Hua University. December 17, 2014.
- [IP.3] “Supporting Civic Activities with Machine and Human Computation.” School of Computing, University of Leeds. December 15, 2014.
- [IP.2] “Usability and Bad Design.” Human factors and Ergonomics Society, The Pennsylvania State University. February 10, 2014.
- [IP.1] “Technology in Use: Notes from the Field.” Teaching Community Seminar, The Pennsylvania State University. February 27, 2013.

**Media Coverage and Interviews**

- [MC.19] “How to Make Sure Your Activity Tracker Isn’t a Waste of Money.” PolicyGenius. January 12, 2018.
- [MC.18] “Two IGI Global Titles Receive Awards.” IGI Global News. June 8, 2017.
- [MC.17] “[인천 실항민 70 명 임진각 방문] ‘고향땅 저 앞인데... 왜 갈 수 없나.’” Gyeongin Daily, Gyeonggi-do, South Korea. May 26, 2017.
- [MC.16] “Smartphone Apps Help Geographical Communities – and Pets.” Center for Computer-Mediated Communication. November 11, 2016.
- [MC.15] “Faculty, students at IU Bloomington receive grants for international research, teaching.” IU Newsroom. February 3, 2016.
- [MC.14] “Patrick Shih receives Mellon Innovating International Research, Teaching and Collaboration Fellowship.” SICE News. January 22, 2016.
- [MC.13] “ILS Welcomes Three New Faculty.” SICE News. July 30, 2015.
- [MC.12] “Instagram określi twoją dojrzałość?” NextWeb Media, Warsaw, Poland. July 14, 2015.
- [MC.11] “New version of Arts Festival app enables users to create own experiences.” Penn State News. July 6, 2015.
- [MC.10] “Why & How Teens, Adults Use Instagram.” Linkdex. June 23, 2015.



- [MC.9] "Instagram user demographic study reveals how adult and teens use photo-sharing app." iDigitalTimes. June 3, 2015.
- [MC.8] "Yes, teens and adults use Instagram differently." ThirdParent. June 3, 2015.
- [MC.7] "IST researchers examine how teens, adults use Instagram." Penn State News. May 28, 2015.
- [MC.6] "Carroll awarded \$279K grant to develop community engagement app." Penn State News. October 29, 2014.
- [MC.5] "Penn State's Center for Human-Computer Interaction building an innovative community, one interaction at a time." iConnect Magazine. September 24, 2014.
- [MC.4] "Arts Fest goes digital with new app." Onward State. July 9, 2014.
- [MC.3] "Get the 'insider experience' with Central Pennsylvania Festival of the Arts app." Penn State News. July 7, 2014.
- [MC.2] "Time is of the essence for new banking system developed at IST." Penn State News. June 25, 2014.
- [MC.1] "IST researchers aim to increase community engagement through local news app." Penn State News. November 1, 2013.

## TEACHING AND CURRICULUM DEVELOPMENT

## Indiana University Bloomington

**Instructor**

INFO I527 CSCI P535	Mobile and Pervasive Design (Cross-listed with CSCI P535) Pervasive Computing (Cross-listed with I527) Course Rating (1-4): TBA Instructor Rating (1-4): TBA	Class Size: TBA Class Size: TBA	Fall 2018 Fall 2018
INFO 590	Seminar in Animal-Computer Interaction Course Rating (1-4): TBA Instructor Rating (1-4): TBA	Class Size: TBA	Fall 2018
UNIV 184R	Bridge to Informatics (DePauw University) Course Rating (1-7): 5.64 Instructor Rating (1-7): 5.29	Class Size: 17	Spring 2018
INFO I527 CSCI P535	Mobile and Pervasive Design (Cross-listed with CSCI P535) Pervasive Computing (Cross-listed with I527) Course Rating (1-4): 3.5 Instructor Rating (1-4): 3.7 <b>[IU Project and Research Symposium “Most Potential for Social Good” Award]</b> <b>[IU Project and Research Symposium “People’s Choice”]</b>	Class Size: 23 Class Size: 23	Fall 2017 Fall 2017
UNIV 184G	Bridge to Informatics (DePauw University) Course Rating (1-7): 6.55 Instructor Rating (1-7): 5.00	Class Size: 13	Spring 2017
ILS Z516	Human-Computer Interaction Course Rating (1-4): 2.4 Instructor Rating (1-4): 2.8	Class Size: 23	Fall 2016
ILS Z604	Social Computing and Computer-Supported Cooperative Work Course Rating (1-4): 3.0 Instructor Rating (1-4): 3.0	Class Size: 6	Spring 2016
ILS Z516	Human-Computer Interaction (Co-Instructor: Younei Soe) Course Rating (1-4): 2.9 Instructor Rating (1-4): 2.8	Class Size: 25	Fall 2015

**Guest Lecturer**

INFO I407/I507	Introduction to Health Informatics, Instructor: Kay Connelly	Fall 2016, Fall 2016, Fall 2017
ILS Z586	Digital Curation, Instructor: Devan Donaldson	Fall 2016
ILS Z516	Human-Computer Interaction, Instructor: Younei Soe	Spring 2016
UNIV 184D	Bridge to Informatics (DePauw University), Instructor: Katie Siek	Spring 2016
ILS Z701	Introduction to Doctoral Research in Information Science, Instructors: Howard Rosenbaum and Pnina Fichman	Fall 2015

## The Pennsylvania State University

**Instructor**

IST 413	Usability Engineering Course Rating (1-7): 5.59 Instructor Rating (1-7): 5.71 <b>[1000 Pitches Summit finalist in “Mobile Apps” category (top 9 out of 1083)]</b>	Class Size: 39	Fall 2014
IST 413	Usability Engineering Course Rating (1-7): 5.24 Instructor Rating (1-7): 5.76	Class Size: 39	Spring 2014
IST 413	Usability Engineering Course Rating (1-7): 5.36 Instructor Rating (1-7): 5.64	Class Size: 42	Spring 2013

**Guest Lecturer**

IST 473	Digital Design and Innovation, Instructor: Lisa (Lee) B. Erickson	Spring 2015
IST 331	Organization and Design of Information Systems: User and System Principles, Instructor: Frank E. Ritter	Spring 2012
IST 522	IST 522 Models, Theories and Frameworks of HCI, Instructor: John M. Carroll	Spring 2012
IST 521	IST 521 Human Computer Interaction: The User and Technology, Instructor: Mary Beth Rosson	Spring 2012

**University of California, Irvine****Teaching Assistant**

ICS 52 Introduction to Software Engineering, Instructor: Ban Al-Ani Winter 2008  
TA Rating (1-9): 8.50

ICS 139W Communications Skills for Computer Scientists, Instructor: Venita De Souza Fall 2007  
TA Rating (1-9): 8.09

**Project Mentor**

INF 190 Ubicomp Projects, Instructor: Gillian R. Hayes Winter 2008

**Guest Lecturer**

INF 131 Human Computer Interaction, Instructor: Yang Wang Summer 2009

**Carnegie Mellon University****Teaching Assistant**

18-342 18-342 Fundamentals of Embedded Systems, Fall 2004  
Instructors: Priya Narasimhan & Rajeev Gandhi  
TA Rating (1-9): 8.22  
**[Best Teaching Assistant Award Nomination]**

18-845 18-845 Internet Services, Instructor: David O'Hallaron Spring 2004  
TA Rating (1-9): 8.77

**PROFESSIONAL AND ACADEMIC SERVICES****Conference, Symposium, Workshop, and Panel Chair**

**Patrick C. Shih** and Ronald Osgood (Eds.). Stories of War: 2018  
A Symposium on Conflict and Civic Engagement.  
Christena Nippert-Eng and **Patrick C. Shih** (Eds.). Animals and Technology Around the World, 2018  
Past and Present. Annual Meeting of the Society for Social Studies of Science (4S).

**Program Chair**

Starr Roxanne Hiltz, Mark S. Pfaff, Linda Plotnick, and **Patrick C. Shih** (Eds.). 2014  
Information Systems for Crisis Response and Management (ISCRAM)

**Journal Editorial Review Board**

Proceedings of the ACM on Human-Computer Interaction (PACMHCI-CSCW) 2018-1st, 2018-2nd  
International Journal of Information Systems for Crisis Response and Management (IJISCRAM) Since 2016

**Conference Program Committee**

iConference (iConf) 2015, 2016, 2019  
Human Factors in Computing Systems (CHI) 2016, 2018  
Supporting Group Work (GROU) 2018  
Human-Computer Interaction with Mobile Devices and Services (MobileHCI) 2018  
Pervasive Computing Technologies for Healthcare (PervasiveHealth) 2018  
Web Science (WebSci) 2016, 2017, 2018  
Chinese CHI (Chinese CHI) 2015, 2016, 2017, 2018  
Mobile Systems and Pervasive Computing (MobiSPC) 2017, 2018  
Annual Meeting of the Association for Information Science and Technology (ASIS&T) 2018  
Digital Transformation & Global Society (DTGS) 2018  
Human Factors in Computing Systems:  
Bridging a Bridge: Bringing Two HCI Communities Together Workshop (CHI BridgingHCI) 2018  
Human Factors in Computing Systems Late-Breaking Work (CHI LBW) 2017  
Designing Interactive Systems (DIS) 2016  
Computer Supported Cooperative Work & Social Computing (CSCW) 2015  
Information Systems for Crisis Response and Management (ISCRAM) 2014  
Human-Centered Computing (HCC) 2014  
Presence (ISPR) 2012, 2014

**Grant Reviewer**

National Science Foundation Graduate Research Fellowship Program (NSF GRFP) Panelist	2016, 2017, 2018
National Science Foundation Cyber-Human Systems (NSF CHS) Panelist	2018
National Science Foundation Smart and Connected Health (NSF SCH) Reviewer	2015

**Journal Paper Reviewer**

Communications of the ACM	2017, 2018
International Journal of Human-Computer Studies (IJHCS)	2015, 2017
International Journal of Environmental Research and Public Health (IJERPH)	2015, 2017
ACM Transactions on Computer-Human Interaction (TOCHI)	2017
PLOS ONE	2016
Interacting with Computers (IwC)	2016
Information, Communication & Society (ICS)	2016
PeerJ Computer Science (PeerJ CS)	2016
Journal of Visual Languages and Computing (JVLC)	2016
International Journal of Disaster Risk Reduction (IJDRR)	2016
Zoo Biology (ZOO BIOL)	2016
The Visual Computer (TVCJ)	2014, 2015
Human-Computer Interaction (HCI)	2015
Future Internet (Future Internet)	2015
Information and Software Technology (INFSOF)	2013

**Conference Paper Reviewer**

Human Factors in Computing Systems (CHI)	2011, 2012, 2013, 2014, 2015, <b>2017*</b>
Computer Supported Cooperative Work & Social Computing (CSCW)	2012, 2013, 2014, <b>2016*</b> , 2017
Designing Interactive Systems (DIS)	2017, 2018
iConference (iConf)	2017, 2018
Australian Conference on Computer-Human Interaction (OZCHI)	2017, 2018
European Conference on Information Systems (ECIS)	2018
Computer Supported Collaborative Learning (CSCL)	2015, 2017
International Conference on Human-Computer Interaction (INTERACT)	2017
Interactive Surfaces and Spaces (ISS)	2017
Hawaii International Conference on System Sciences (HICSS)	2017
Mobile Systems and Pervasive Computing (MobiSPC)	2017
Pervasive and Ubiquitous Computing (UbiComp)	2016
International Conference on Information Systems (ICIS)	2016
Creativity and Cognition (C&C)	2015
International Symposium on Wearable Computers (ISWC)	2015
Americas Conference on Information Systems (AMCIS)	2015
Human-Computer Interaction with Mobile Devices and Services (MobileHCI)	2013

**[\* Special Recognitions for Exceptional Reviews]****Doctoral Consortium Committee**

Annual Meeting of the Association for Information Science and Technology (ASIS&T)	2017
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**Marketing and Communication Committee**

Information Systems for Crisis Response and Management (ISCRAM)	2014
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**Publicity Chair**

International Symposium on End User Development (IS-EUD)	2015
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**Proceedings Chair**

Information Systems for Crisis Response and Management (ISCRAM)	2014
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**Session Chair**

Human Factors in Computing Systems (CHI)	2016, 2017
iConference (iConf)	2015, 2016

**Student Volunteer Chair**

Computer Supported Cooperative Work & Social Computing (CSCW)	2011
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**Student Volunteer**

Computer Supported Cooperative Work & Social Computing (CSCW)	2008, 2010 Team Leader
Supporting Group Work (GROUP)	2009

**University-related Activities**

IU Bloomington Faculty Council—Creation, Reorganization, Elimination, and Merger Committee (BFC-CREM)	2016-18
IUB Institute for Digital Arts and Humanities (IDAH) Steering Committee	Since 2017
IUB Institute for Digital Arts and Humanities (IDAH) Research & Pedagogy Advocacy Subcommittee	Since 2017
IUB SICE Animal-Computer Interaction Professional Master's Program Director	Since 2017
IU Bloomington Faculty Council (BFC)	Since 2017
IU SICE CHI Writing Workshop, Organizer	Since 2016
NSF Research Experiences for Undergraduates (REU) Advisor	Since 2015
IUB Groups STEM Summer Research Experience Program (SREP) Advisor	Since 2015
IUB SICE Undergraduate Research Opportunities in Computing (UROC) Advisor	Since 2015
IUB Informatics Scholarship Committee	2017-18
IUB Informatics Lecturer in Informatics Program Search Committee	2017-18
IUB Informatics Director of Dean's External Affairs Search Committee	2017-18
IU Bloomington Faculty Council—Faculty Affairs Committee (BFC-FAC)	2016-18
IUB Human Computer Interaction Consortium (HCIC) Coordinator	2016-17
IUB Informatics HCI/Interaction Design, Course Coordinator	2016-17
IUB Informatics Web Development Manager Search Committee	2016-17
IUB Informatics Director of Computing Outreach Education Search Committee	2016-17
IUB Faculty-Student Mentoring Initiative (FMI), Advisor	2016-17
IUB Informatics On-Campus Visit Day Faculty Panel, Panelist	2016-17
IUB SICE Spring Projects and Research Symposium, Judge	2015-17
IUB SICE Fall Projects and Research Symposium, Judge	2015-17
IUB SICE Proactive Health Informatics Faculty Search Committee	2015-16
IUB ILS On-Campus Visit Day Faculty Panel, Panelist	2015-16
IUB ILS MIS & MLS Social Computing Specialization Director	2015-16
IUB ILS Graduate Admission and Scholarship Committee	2015-16
IUB ILS Graduate Programs Subcommittee on MIS Curriculum	2015-16
Penn State IST Scholarship Committee	2014-15
Penn State IST Awards Committee	2014-15
Penn State IST College Assessment Committee	2014-15
Penn State IST Distributed Research Experiences for Undergraduates (DREU) Advisor	Summer 2014
Penn State Postdoc Research Exhibition, Judge	2013-15
Penn State College of Engineering Research Symposium Judge	2013-14
Penn State Graduate Student Research Exhibition Judge	2012-14
Penn State IST Undergraduate Commencement Ceremony, Faculty-at-large	2012-14
Penn State IST Web Committee	2012-15
Penn State IST Human Computer Interaction Curriculum Committee	2012-15
Penn State IST Human Computer Interaction Special Interests Group	2012-15
UC Irvine Informatics Graduate Student Association Board Committee & Social Chair	2010-11
Engineering Society of UCLA (ESUC) Junior Class Representative	2002-03
IEEE Micromouse Team Officer	2001-02
Eta Kappa Nu National Engineering Honor Society Project Committee	2001-02
Tau Beta Pi National Engineering Honor Society Resume Book Committee Chair	2001-02

**Membership**

ACM Lifetime Member

**MENTORSHIP****Indiana University Bloomington****Visiting Scholars**

Hong Qiao, Faculty Host, School of Management Science and Engineering, Shandong Normal University 2015 – 2017  
 Sara Tena Garcia, Dissertation External Examiner, Universidad Carlos III de Madrid 2015 – 2016

**Doctoral Students***Research Committee*

Juan F. Maestre, Chair Since 2018  
 Dahee Chung, Research Committee 2015 – 2017

*Advisory Committee*

Lucas Cook Since 2017  
 Aehong Min, Chair Since 2016  
 Gege Gao, Chair Since 2016  
 Shannon Yang Since 2015  
 Juan F. Maestre, Chair 2015 – 2018  
 Anna N. Baglione, Chair 2016 – 2018

*Informatics Minor Advisor*

Yi-Han Hu (IU Applied Health Science) Since 2018  
 Bo-chiuan Chen (IU Applied Health Science) Since 2017  
 Daehyoung Lee (IU Kinesiology) Since 2016  
 Tom Ongwere (IU Informatics) Since 2016  
 Andreas Bueckle (IU Intelligent Systems Engineering) Since 2015

*Independent Study Advisor*

Cassie Kresnye Since 2017  
 Swapna Chandrashekhar Joshi Since 2017  
 Jacob Norman Hagstrom Since 2017  
 Zackary Jones 2017 – 2018  
 Vincent Malic 2015 – 2018  
 Zheng Gao 2015 – 2018  
 Stephen Sher 2017  
 Pei-Ying Chen 2015 – 2017  
 Chase Matthew McCoy 2015 – 2016

**Master's Students***Independent Study Advisor*

Rounak Choudhary 2015 – 2017  
 Yu-Chen Huang 2015 – 2017  
 Revathy Sridharan 2015 – 2017

**Undergraduate Students***Undergraduate Independent Research Advisor*

Julia Dunbar 2017 – 2018  
 Ciabhan L. G. Connelly 2017 – 2018  
 Cody Banister 2017 – 2018  
 Meagan Price 2017 – 2018

*SICE Undergraduate Research Opportunities in Computing (UROC) Advisor*

Rachel Sawchuk 2017 – 2018  
 Cody Banister 2016 – 2017  
 Qian (Judy) Dai 2016 – 2017  
 Lee Hiler 2015 – 2017

*Emerging Scholars Research Experiences for Undergraduate Women (CEWiT REU-W) Advisor*

Hannah Blalock	2017 – 2018
Gabrielle S. Cantor	2017 – 2018

*NSF Research Opportunities for Undergraduates (REU) Advisor*

Flannery Currin	Summer 2018
Gustavo Razo	Summer 2018
Ciabhan L. G. Connelly	Summer 2017
Julia Dunbar	Summer 2017
Gabrielle S. Cantor	Summer 2017
Meagan Price	Summer 2017
Maxine Marie Girard	Summer 2017
Sergio Ramirez Martin	Summer 2017
Vanessa Pereira	Summer 2016
Grace Bastin	Summer 2016

*Groups STEM Summer Research Experience Program (SREP) Advisor*

Saul Martinez Jr.	Summer 2018
Christina Colon	Summer 2018
Ali A. Talib	Summer 2017
William Cole Smith	Summer 2017
Alize Dickey	Summer 2016
Marille Velez	Summer 2016

*Indiana STEM Louis Stokes Alliance for Minority Participation (IN LSAMP) Advisor*

Justin Alexander	Summer 2018
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**[2017 IU Office of Mentoring Services & Leadership Development Award]****The Pennsylvania State University*****Doctoral Students***

Kyungsik (Keith) Han, Dissertation Committee	2012 – 2015
Yu Wu, Dissertation Mentor	2012 – 2015
Saijing Zheng, Dissertation Mentor	2013 – 2015
Jing Wang, Dissertation Mentor	2012 – 2013
Sara Tena Garcia, Universidad Carlos III de Madrid, Dissertation Mentor	Summer 2013

***Master's Students***

Joslenne Pena, Master's Thesis Mentor	2013 – 2015
Saloni J. D. Vaghela, Master's Thesis Advisor	2014 – 2015
Unsuik Heo, Independent Study Advisor	2014 – 2015

***Undergraduate Students***

Brett Holden, Honors Thesis Advisor	2014 – 2015
Liam Neigh, Summer Undergraduate Research Fellowship (SURF) Advisor	Summer 2014
Sarah Alice Hanna, Distributed Research Experiences for Undergraduates (DREU) Mentor, Barnard College of Columbia University	Summer 2014
Diana Zhang, Summer Undergraduate Research Fellowship (SURF) Advisor	Summer 2013

**University of California, Irvine*****Master's Students***

Jana Schumann, Otto-von-Guericke-University, Magdeburg, Master's Thesis Mentor	Summer 2011
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***Undergraduate Students***

Sen Hirano, Independent Research Mentor	Spring 2008
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**REFERENCES****John M. Carroll**

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College of Information Sciences and Technology  
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Phone: +1 (814) 863-2476  
E-mail: jcarroll@ist.psu.edu

**Gary M. Olson**

Professor Emeritus<sup>1, 2</sup>  
<sup>1</sup>Department of Informatics  
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<sup>2</sup>School of Information  
University of Michigan  
Phone: +1 (949) 824-0077  
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**Mary Beth Rosson**

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**Victoria Bellotti**

Research Fellow<sup>1</sup> and Adjunct Professor<sup>2</sup>  
<sup>1</sup>Palo Alto Research Center  
<sup>2</sup>Jack Baskin School of Computer Engineering  
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**Judith S. Olson**

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University of California, Irvine  
<sup>2</sup>School of Information  
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