Patrick C. Shih   Curriculum Vitae

Assistant Professor   Myles Brand Hall E259
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https://patshih.luddy.indiana.edu   Bloomington, IN 47408-3912

RESEARCH INTERESTS

My research focuses on how to better support health and wellbeing, specifically that of underserved and vulnerable populations, through the design, development, and evaluation of sociotechnical systems and community-based mechanisms. I also design technologies to amplify human and animal capabilities in animal-assisted interventions and to improve animal welfare.

EDUCATION

University of California, Irvine
Ph.D. in Information and Computer Science   2006 – 2011
Dissertation Committee: Gary M. Olson (Chair), David F. Redmiles (Co-Chair), and Gina Venolia

Carnegie Mellon University
M.S. in Information Networking   2003 – 2005
Thesis Committee: Priya Narasimhan (Chair) and Rajeev Gandhi

University of California, Los Angeles
B.S. in Computer Science and Engineering, *cum laude*   2000 – 2003
Advisors: Lixia Zhang and Milos Ercegovac

EXPERIENCES

Indiana University Bloomington

Appointments
Assistant Professor   Since 2016
Department of Informatics
Data Science Program (courtesy)
Department of Computer Science (courtesy)
Department of Information and Library Science (courtesy)

Part-time Assistant Professor   2016 – 2018
Computer Science Department, DePauw University

Assistant Professor   2015 – 2016
Department of Information and Library Science

Faculty Directorships and Affiliations
Director, Graduate Studies for Data Science   Since 2020
Co-Director, PhD and MS Animal Informatics Track   Since 2020
Co-Director, PhD Minor in Animal-Computer Interaction   Since 2020
Co-Director, BS Cognate/Minor in Animal-Computer Interaction   Since 2020
Affiliated Faculty, Center for Rural Engagement (CRE)   Since 2019
Affiliated Faculty, Crisis Technologies Innovation Lab (CTIL)   Since 2019
Affiliated Faculty, Center for the Integrative Study of Animal Behavior (CISAB) Since 2016
Affiliated Faculty, Indiana University Network Science Institute (IUNI)   Since 2015
Affiliated Faculty, Institute for Digital Arts and Humanities (IDAH)   Since 2015
Affiliated Faculty, Center of Excellence for Women in Technology (CEWiT)   Since 2015
Affiliated Faculty, Institute for Software Research (ISR), University of California, Irvine   Since 2015
Director, Societal Computing Lab (SoCo Lab)   Since 2015

Fellowship

Fellow, Minority Serving Institution Faculty Research Development Institute (MSI-FRDI)   Since 2015
Fellow, Center for Computer-Mediated Communication (CCMC)   Since 2015
Fellow, Grant Thornton Institute for Data Exploration for Risk Assessment and Management 2020 – 2021
Fellow, NSF Transforming Education, Stimulating Teaching and Learning Excellence (TRESTLE)
                                                                                         2019 – 2020
Fellow, Transformative Learning Collegium (TLC)   2019 – 2020
Fellow, Course Development Institute (CDI)   2019 – 2020
Fellow, Andrew W. Mellon Foundation   2016 – 2017
Fellow, Consortium for the Science of Sociotechnical Systems (CSST)   Summer 2016
Fellow, National Center for Faculty Development and Diversity (NCFDD)   2015 – 2016

The Pennsylvania State University

Appointments

Research Associate and Lecturer (Graduate Faculty)   2012 – 2015
College of Information Sciences and Technology
Research Supervisor: John M. Carroll

Faculty Directorships and Affiliations
Affiliated Faculty, Center for Human-Computer Interaction

University of California, Irvine
Graduate Researcher, Hana Lab / Behavior Lab   2008 – 2011
Advisor: Gary M. Olson (Chair)

Graduate Researcher, Collaboration Research in Action, Design, and Learning Lab   2006 – 2008
Advisor: David F. Redmiles (Co-Chair)

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

IBM Research
Research Intern   Summer-Fall 2008
User Systems and Experience Research (USER) Group, Almaden Research Center, San Jose, CA
Research Supervisor: Tessa Lau

Extreme Blue Intern   Summer 2007
Component Systems Group, Thomas J. Watson Research Center, Hawthorne, NY
Research Supervisor: Paul P. Maglio

Research Developer   2006
User Systems and Experience Research (USER) Group, Almaden Research Center, San Jose, CA
Research Supervisor: John J. Barton

WBI Tools Developer and Performance Analyst   Summer-Fall 2005
Websphere Business Integration Performance and Development Division, Austin, TX

Extreme Blue Intern   Spring 2005
User Systems and Experience Research (USER) Group, Almaden Research Center, San Jose, CA
Research Supervisor: John J. Barton

Software Developer Intern—Test Tool Development   Summer 2004
Printing Systems Division, Boulder, CO

Carnegie Mellon University
Graduate Researcher, Proactively Reconfigurable, Adaptive, Reliable Middleware Lab   2003 – 2005
Advisors: Priya Narasimhan (Chair) and Rajeev Gandhi

University of California, Los Angeles
Undergraduate Researcher   2002 – 2003
Internet Research Lab
Advisor: Lixia Zhang

Lab Consultant and Technical Support   2001 – 2003
UCLA Engineering SEASnet Computing Facility

Undergraduate Researcher   2001 – 2002
Digital Arithmetic and Reconfigurable Architecture Laboratory
Advisor: Milos D. Ercegovac

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

HONORS AND AWARDS

Honor and Research Awards

Grant Thornton Institute for Data Exploration for Risk Assessment and Management (GT-IDEA) Fellowship	2020 – 2021
ACM Senior Member Award (top 25% of ACM)	2020
EAI PervasiveHealth Best Paper Honorable Mention Award (top 5%) [C.38]	2020
NSF SCH Aspiring PI Award	2020
DiGRA Best Paper Award (top 3%) [C.28]	2018
European Exhibition of Creativity and Innovation Conference (Euroinvent) Silver Medal Award [BC.2]	2017
Andrew W. Mellon Foundation Faculty Fellowship	2016 – 2017
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 Finalist (top 3%) [C.14]	2015
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) Award	2007
CMU Information Networking Institute Scholarship	2003 – 2005
Golden Key International Honour Society	2003
UCLA University Scholarship	2002
UCLA Paul Sandager Alumni 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

Teaching Awards

NSF Transforming Education, Stimulating Teaching and Learning Excellence (TRESTLE) Fellowship	2019 – 2020
Indiana University Trustees Teaching Award	2018 – 2019
IU Project and Research Symposium "Most Potential for Social Good" Award [INFO-I 527 & CSCI-P 535]	Fall 2017
IU Project and Research Symposium "People's Choice" Award [INFO-I 527 & CSCI-P 535]	Fall 2017
1000 Pitches Summit finalist in "Mobile Apps" category (top 9 out of 1083) [IST 413]	2014 – 2015
CMU Best Teaching Assistant Award Finalist	2004 – 2005

Service Awards

ACM CHI Special Recognitions for Outstanding Reviews	2021
ACM DIS Special Recognitions for Outstanding Reviews	2020
ACM CHI Special Recognitions for Outstanding Reviews	2020
IU Groups Scholars Program STEM Mentor of the Year	2018 – 2019
ACM DIS Special Recognitions for Outstanding Reviews	2017
ACM CHI Special Recognitions for Outstanding Reviews	2017
IU Office of Mentoring Services and Leadership Development Award	2016 – 2017
ACM CSCW Special Recognitions for Outstanding Reviews	2016

FUNDING

Total award amount: $1,257,829 (PI: $806,681; Co-PI/Co-I: $451,148)

External Grants

[EG.8] Grant Thornton Institute for Data Exploration for Risk Assessment and Management (GT-IDEA) Fellowship. 07/01/20-06/30/21. PI: **Patrick C. Shih**. $8,000.

[EG.7] National Science Foundation #1909700. 01/01/20-12/31/22. *CHS: Small: Collaborative Research: Shared Mobility Systems to Address Transportation Barriers of Underserved Urban and Rural Communities*. IUB PI: **Patrick C. Shih**. $211,769; UM PI: Tiffany Veinot; UM Co-PI: Tawanna Dillahunt. $288,231. **IUB REU Supplement Award**: $24,000. UM REU Supplement Award: $8,000; Total Award: $532,000.

[EG.6] Templeton World Charity Foundation #0271. 07/01/18-10/31/21. Teaching in wild New Caledonian crows. MPI-SHH PI: Natalie Uomini. $182,398; IUB Co-PI: **Patrick C. Shih**. $42,668; Total Award: $225,066.

[EG.5] Andrew W. Mellon Foundation Faculty Fellowship. 07/01/16-06/30/17. *Understanding cross-cultural differences of crowd work in U.S., Taiwan, and China*. PI: **Patrick C. Shih**. $20,000.

[EG.4] U.S. National Park Service. 07/01/15–06/30/16. *Population monitoring, seasonal activity, and landscape movements of little brown myotis (Myotis lucifugus) in Yellowstone National Park*. NPS PI: John Treanor; OU PI: Joe Johnson; UC PI: Jessica Kropczynski; IU PI: **Patrick C. Shih**. $60,000.

[EG.3] Yellowstone Park Foundation. 07/01/15–06/30/16. *Bat ecology and movements in Yellowstone National Park*. NPS PI: John Treanor; OU PI: Joe Johnson; UC PI: Jessica Kropczynski; IUB PI: **Patrick C. Shih**. $50,000.

[EG.2] Bloomberg Financial Products UX Research Awards. 07/01/15-06/30/16. *End-user configurable tools for integrating discussions of trending financial news*. PI: John M. Carroll; Co-PI: **Patrick C. Shih**. $135,000.

[EG.1] Next Century Corporation Technology Innovation Grant. 07/01/14-06/30/15. PI: **Patrick C. Shih**. $2,000.

Internal Grants

[IG.7] Indiana University Center for Rural Engagement Direct Collaboration Grant. 07/01/20-06/30/21. *A Smartphone App-based Information Portal for Accessing Locally Relevant Public Health Information for Rural Residents*. PI: **Patrick C. Shih**. $14,942.

[IG.6] Indiana University Collaborative Research Grants. 05/01/18-12/31/19. *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)*. SPH PI: Georgia C. Frey; EDU PI: Scott Bellini; INFO PI: **Patrick C. Shih**. $74,971.

[IG.5] IUB New-Frontiers New Currents Funding Award. 11/30/17-12/31/18. *Stories of War: A Symposium on Conflict and Civic Engagement*. PI: **Patrick C. Shih**. $19,768.

[IG.4] IUB Collaborative Research and Creative Activity Funding Award. 05/01/17-06/30/18. *Just Like Me: Stories from All Sides of the Vietnam War*. PI: **Patrick C. Shih**. $20,000.

[IG.3] Penn State Center for Online Innovation in Learning Research Initiation Grant. 07/01/15-06/30/16. *Occupy MOOCs: Understanding and designing for actual student motivations and activities in MOOCs*. PI: John M. Carroll; Co-PI: Mary Beth Rosson, **Patrick C. Shih**. $49,082.

[IG.2] Penn State Schreyer Institute for Teaching Excellence Teaching Project Grant. 07/01/14-06/30/15. *Supporting Technology Augmented Rhetoric (STAR)*. PI: **Patrick C. Shih**; Co-PI: Jessica Kropczynski. $5,000.

[IG.1] Penn State Center for Online Innovation in Learning Research Initiation Grant. 07/01/13-06/30/14. *Supporting Dialectical Learning with Piazza*. PI: John M. Carroll; Co-PI: **Patrick C. Shih**. $42,000.

PUBLICATIONS

I have produced 116 publications (23 Journal Papers; 8 Book Chapters; 1 Proceeding; 44 Conference Papers; 12 Extended Abstracts; 25 Workshop Papers/Posters/Demos; 1 Patent; 2 Theses); 48 Publicity and Media Coverage (19 Invited Presentations; 29 Media Coverage)

Google Scholar (**Citations: 2010; h-index: 22; i10-index: 35**)
https://scholar.google.com/citations?hl=en&user=Lzw8EnkAAAAJ

Publications listed in this CV follows the ACM Citation Style and References Formats.

Journal Papers

[J.23]   Anna N. Baglione, Michael Paul Clemens, Juan F. Maestre, Aehong Min, Luke Dahl, and **Patrick C. Shih**. 2021. Understanding the technological practices and needs of music therapists. *Proceedings of the ACM on Human-Computer Interaction*, CSCW.

[J.22]   Aehong Min, Wendy Miller, Luis M. Rocha, Katy Borner, Rion Brattig Correia, and **Patrick C. Shih**. 2021. Just in time: Challenges and opportunities of first aid care information sharing for supporting epileptic seizure response. *Proceedings of the ACM on Human-Computer Interaction*, CSCW.

[J.21]   Zhi Wang, Anne Buu, David K. Lohrmann, **Patrick C. Shih**, and Hsien-Chang Lin. 2021. The role of family conflict in mediating impulsivity to early substance exposure among preteens. *Addictive Behaviors* 115, 106779 (Apr. 2021), 1-8. https://doi.org/10.1016/j.addbeh.2020.106779

[J.20]   Juan F. Maestre, Patrycja Zdziarska, Aehong Min, Anna N. Baglione, Chia-Fang Chung, and **Patrick C. Shih**. 2020. Not another medication adherence app: Critical reflections on addressing public HIV-related stigma through design. *Proceedings of the ACM on Human-Computer Interaction* 4, CSCW3, Article 262 (Dec. 2020), 1-28. https://doi.org/10.1145/3434171

[J.19]   Daehyoung Lee, Georgia C. Frey, Aehong Min, Bogoan Kim, Donetta Cothran, Scott Bellini, Kyungsik Han, and **Patrick C. Shih**. 2020. Usability inquiry of a gamified behavior change app for increasing physical activity and reducing sedentary behavior in adults with and without autism spectrum disorder. *Health Informatics Journal* 26, 4 (Dec. 2020), 2992-3008. https://doi.org/10.1177/1460458220952909

[J.18]   Bogoan Kim, Daehyoung Lee, Aehong Min, Seungwon Paik, Georgia C. Frey, Scott Bellini, Kyungsik Han, and **Patrick C. Shih**. 2020. PuzzleWalk: A theory-driven iterative design inquiry of a mobile game for promoting physical activity in adults with autism spectrum disorder. *PLOS ONE* 15, 9, e0237966 (Sep. 2020), 1-24. https://doi.org/10.1371/journal.pone.0237966

[J.17]   Leysia Palen, Jennings Anderson, Melissa Bica, Carlos Castillos, John Crowley, Paloma Díaz Pérez, Megan Finn, Rob Grace, Amanda Hughes, Muhammad Imran, Marina Kogan, Nicolas Lalone, Prasenjit Mitra, Wendy Norris, Katie Pine, Hemant Purohit, Christian Reuter, Caroline Rizza, Lise St Denis, Bryan Semaan, Valerie Shalin, Lea Shanley, **Patrick C. Shih**, Robert Soden, Kate Starbird, Keri K. Stephen, Z O. Toups, and Tom Wilson. 2020. Crisis informatics: Human-centered research on tech & crises: A guided bibliography developed by crisis informatics researchers. *Hyper Articles en Ligne*, hal-02781763f (June 2020), 1-14.

[J.16]   Aehong Min, Daehyoung Lee, Gege Gao, Stella Jeong, and **Patrick C. Shih**. 2020. Design and assessment of a personal breathalyzer intervention to support responsible drinking. *International Journal of Human-Computer Studies* 137, 102382 (May 2020), 1-15. https://doi.org/10.1016/j.ijhcs.2019.102382

[J.15]   Gege Gao and **Patrick C. Shih**. 2019. Effects of mobile platform on female engagement in MOBA. *Transactions of the Digital Games Research Association* 4, 3 (June 2019), 75-116. https://doi.org/10.26503/todigra.v4i3.107

[J.14]   Juan F. Maestre, Susan C. Herring, Aehong Min, Ciabhan L. Connelly, and **Patrick C. Shih**. 2018. Where and how to look for help matters: Analysis of support exchange in online health communities for people living with HIV. *Information* 9, 10, Article 259 (Oct. 2018), 1-16. http://doi.org/10.3390/info9100259

[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 (Dec. 2017), 1-22. https://doi.org/10.1145/3134750 (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 (April 2017), 51-63.

[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://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://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 support networks mediated by mobile technology. *Interacting with Computers* 28, 3 (May 2016), 220-237. http://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://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 practices. *Information and Software Technology* 67 (Nov. 2015), 1-12. http://doi.org/10.1016/j.infsof.2015.06.002

[J.6] **Patrick C. Shih**, Kyungsik Han, and John M. Carroll. 2015. Using social multimedia content to inform emergency planning of recurring and cyclical events in local communities. *Journal of Homeland Security and Emergency Management* 12, 3 (Sep. 2015), 627-652. http://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://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 (June 2015), 1-17.

[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 (June 2015), 1-22. http://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://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://doi.org/10.1080/10447318.2014.925773

Book Chapters

[BC.8] Jacob E. Abbott, Gege Gao, and **Patrick C. Shih**. 2019. Creen: A carbon footprint calculator designed for calculation in context. In Natalie G. Taylor, Caitlin Christian-Lamb, Michelle H. Martin, and Bonnie Nardi (Eds.), *Information in Contemporary Society. iConference 2019. Lecture Notes in Computer Science 11420*. Springer, Cham, 769-776. https://doi.org/10.1007/978-3-030-15742-5_72 (33% acceptance rate)

[BC.7] Zheng Gao, Vincent Malic, Shutian Ma, and **Patrick C. Shih**. 2019. How to make a successful movie: Factor analysis from both financial and critical perspectives. In Natalie G. Taylor, Caitlin Christian-Lamb, Michelle H. Martin, and Bonnie Nardi (Eds.), *Information in Contemporary Society. iConference 2019. Lecture Notes in Computer Science 11420*. Springer, Cham, 669-678. https://doi.org/10.1007/978-3-030-15742-5_63 (33% acceptance rate)

[BC.6] Kyungsik Han, **Patrick C. Shih**, Victoria Bellotti, and John M. Carroll. 2019. It's time there was an app for that too: A usability study of mobile timebanking. In Information Resources Management Association (Ed.), *Multigenerational Online Behavior and Media Use: Concepts, Methodologies, Tools, and Applications*. IGI Global, Hershey, PA, 242-265. http://doi:10.4018/978-1-5225-7909-0.ch014

[BC.5] **Patrick C. Shih**. 2018. Beyond human-in-the-loop: Empowering end-users with transparent machine learning. In Jianlong Zhou and Fang Chen (Eds.), *Human and Machine Learning: Visible, Explainable, Trustworthy, and Transparent*. Springer, Cham, 37-54. https://doi.org/10.1007/978-3-319-90403-0_3

[BC.4] Aehong Min, Daehyoung Lee, and **Patrick C. Shih**. 2018. Potentials of smart breathalyzer: Interventions for excessive drinking among college students. In Gobinda Chowdhury, Julie McLeod, Val Gillet, and Peter Willett (Eds.), *Transforming Digital Worlds. iConference 2018. Lecture Notes in Computer Science 10766*. Springer, Cham, 195-206. https://doi.org/10.1007/978-3-319-78105-1_24 (30% acceptance rate)

[BC.3] John M. Carroll, **Patrick C. Shih**, Jessica Kropczynski, Guoray Cai, G., Mary Beth Rosson, and Kyungsik Han. 2016. The internet of places at community-scale: Design scenarios for hyperlocal neighborhood. In Shin'ichi Konomi and George Roussos (Eds.), *Enriching Urban Spaces with Ambient Computing, the Internet of Things, and Smart City Design*. IGI Global, Hershey, PA, 1-24. http://doi.org/10.4018/978-1-5225-0827-4.ch001

[BC.2] Joslenne Pena, **Patrick C. Shih**, and Mary Beth Rosson. 2015. Instructors as end-user developers: Technology usage opportunities in the inverted classroom. In Elena Railean, Gabriela Walker, Atilla Elçi, and Liz Jackson (Eds.), *Handbook of Research on Applied Learning Theory and Design in Modern Education*. IGI Global, Hershey, PA, 560-571. http://doi:10.4018/978-1-4666-9634-1.ch027
[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 Giuseppe Riva, John Waterworth, and Dianne Murray (Eds.), *Interacting with Presence: HCI and the Sense of Presence in Computer-Mediated Environments*. De Gruyter, Berlin/Boston, 70-82. https://doi.org/10.2478/9783110409697.5

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, USA. ISBN: 978-0-692-21194-6

Conference Papers

[C.44] Juan F. Maestre, Tawanna R. Dillahunt, Alec A. Theisz, Megan Furness, Vaishnav Kameswaran, Tiffany Veinot, and **Patrick C. Shih**. 2021. Examining mobility among people living with HIV in rural areas. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '21)*. ACM, New York, NY. (26.3% acceptance rate)

[C.43] Youngseung Jeon, Seungwon Paik, **Patrick C. Shih**, and Kyungsik Han. 2021. FashionQ: An AI-driven creativity support tool for facilitating ideation in fashion design. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '21)*. ACM, New York, NY. (26.3% acceptance rate)

[C.42] Seungwon Paik, Youngseung Jeon, **Patrick C. Shih**, and Kyungsik Han. 2021. I Feel More Engaged When I Move!: Deep Learning-based Backward Movement Detection and its Application. In *Proceedings of the IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR '21)*. ACM, New York, NY.

[C.41] Aehong Min, Flannery Currin, Gustavo Razo, Kay Connelly, and **Patrick C. Shih**. 2020. Can I take a break? Facilitating in-home respite care for family caregivers of older adults. In *American Medical Informatics Association Annual Symposium Proceedings (AMIA '20)*.

[C.40] K. Cassie Kresnye, Christopher Flynn Martin, and **Patrick C. Shih**. 2020. Drone delivery service: An orangutan enrichment pilot study. In *Proceedings of the International Conference on Animal-Computer Interaction (ACI '20)*. ACM, New York, NY, USA.

[C.39] K. Cassie Kresnye and **Patrick C. Shih**. 2020. Movement patterns as enrichment: Exploratory canine-drone interaction pilot study. In *Proceedings of the International Conference on Animal-Computer Interaction (ACI '20)*. ACM, New York, NY, USA.

[C.38] Tom Ongwere, Gabrielle S. Cantor, James Clawson, **Patrick C. Shih**, and Kay Connelly. 2020. Design and care for discordant chronic comorbidities: A comparison of healthcare providers' perspectives. In *Proceedings of the EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '20)*. ACM, New York, NY, USA. https://doi.org/10.1145/3421937.3422013
        [Best Paper Honorable Mention Award (top 5%)]

[C.37] K. Cassie Kresnye, Alec A. Theisz, Lauren Trester, and **Patrick C. Shih**. 2019. Barks & Rec: A dog park socio-technical system. In *Proceedings of the International Conference on Animal-Computer Interaction (ACI '19)*. ACM, New York, NY, USA, Article 12, 1-6. https://doi.org/10.1145/3371049.3371064

[C.36] K. Cassie Kresnye, Annie M. Phelps, and **Patrick C. Shih**. 2019. Towards rehabilitation smart habitats: Designing for North American opossum joeys. In *Proceedings of the International Conference on Animal-Computer Interaction (ACI '19)*. ACM, New York, NY, USA, Article 11, 1-6. https://doi.org/10.1145/3371049.3371058

[C.35] Zheng Gao and **Patrick C. Shih**. 2019. Communities of support: Social support exchange in a HIV online forum. In *Proceedings of the International Symposium of Chinese CHI (Chinese CHI '19)*. ACM, New York, NY, 37-43. https://doi.org/10.1145/3332169.3333576 (50% acceptance rate)

[C.34] K. Cassie Kresnye and **Patrick C. Shih**. 2018. "We have a volunteer coordinator who is unfortunately a volunteer": A qualitative assessment of animal shelters. In *Proceedings of the International Conference on Animal-Computer Interaction (ACI '18)*. ACM, New York, NY, Article 14, 1-6. https://doi.org/10.1145/3295598.3295612

[C.33] Gege Gao, Yuxuan Zhang, Cheng Cheng, Yi Bu, and **Patrick C. Shih**. 2018. Designing to enhance student participation in campus heritage using augmented reality. In *Proceedings of the Digital Heritage International Congress held jointly with the International Conference on Virtual Systems and Multimedia (DigitalHERITAGE / VSMM 2018)*. IEEE, New York, NY, 261-264. https://doi.org/10.1109/DigitalHeritage.2018.8810077

[C.32] **Patrick C. Shih** and Ronald J. Osgood. 2018. Vietnam War stories: Stories from all sides. In *Proceedings of the Digital Heritage International Congress held jointly with the International Conference on Virtual Systems and Multimedia (DigitalHERITAGE / VSMM 2018)*. IEEE, New York, NY, 35-38. https://doi.org/10.1109/DigitalHeritage.2018.8810004

[C.31] Tom Ongwere, Gabrielle Cantor, Sergio Ramirez Martin, **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, New York, NY, 571-583. https://doi.org/10.1145/3240167.3240221 (24% acceptance rate)

[C.30] Daehyoung Lee, Georgia C. 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, New York, NY, 180-183. https://doi.org/10.1109/VS-Games.2018.8493439 (24% acceptance rate)

[C.29] Gege Gao, Yuxuan Zhang, Yi Bu, and **Patrick C. Shih**. 2018. Design exploration on 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, New York, NY, 1190-1195. https://doi.org/10.1109/ROMAN.2018.8525694

[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, 1-16. (52% acceptance rate)
        [Best Paper Award (top 3%)]

[C.27] 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, 983-993.

[C.26] Juan F. Maestre, Haley MacLeod, Ciabhan L. Connelly, Julia C. Dunbar, Jordan Beck, Katie A. 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, New York, NY, Paper 557, 1-13. https://doi.org/10.1145/3173574.3174131 (26% acceptance rate)

[C.25] 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, New York, NY, Paper 416, 1-12. https://doi.org/10.1145/3173574.3173990 (26% acceptance rate)

[C.24] 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* (Chinese CHI '18). ACM, New York, NY, 84-94. https://doi.org/10.1145/3202667.3202679 (52% 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, New York, NY, 328-336. https://doi.org/10.1145/3152771.3152806 (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, New York, NY, 307-317. https://doi.org/10.1145/3152771.3152804 (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, New York, NY, 6184-6194. https://doi.org/10.1145/3025453.3026045 (25% acceptance rate)

[C.20] Xianghua Ding, **Patrick C. Shih**, and Ning Gu. 2017. Socially embedded work: A study of wheelchair users performing online crowd work in China. In *Proceedings of the ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW '17)*. ACM, New York, NY, 642-654. https://doi.org/10.1145/2998181.2998282 (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, New York, NY, 71-81. https://doi.org/10.1145/2914586.2914602 (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. https://doi.org/10.9776/16160 (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 held jointly with the International Conference on Virtual Systems and Multimedia (DigitalHERITAGE / VSMM 2018)*. IEEE, New York, NY, 321-324. https://doi.org/10.1109/DigitalHeritage.2015.7413892 (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, New York, NY, 4039-4042. https://doi.org/10.1145/2702123.2702555 (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, New York, NY, 1075-1084. https://doi.org/10.1145/2702123.2702560 (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 Finalist (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 and Social Computing (CSCW '15)*. ACM, New York, NY, 1882-1895. https://doi.org/10.1145/2675133.2675217 (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 and Crowdsourcing (HCOMP '14)*. AAAI, Palo Alto, CA, 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 Khabsa, 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, New York, NY, 105-112. https://doi.org/10.1109/ICWS.2014.27 (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, New York, NY, 2975-2984. https://doi.org/10.1145/2556288.2557061 (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 of and participation in local heritage with a mobile application. In *Proceedings of the ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW '14)*. ACM, New York, NY, 1144-1155. https://doi.org/10.1145/2531602.2531640 (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, New York, NY, 199-208. https://doi.org/10.1145/2389176.2389207 (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, New York, NY, 1257-1266. https://doi.org/10.1145/2145204.2145393 (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 BCS Conference on Human-Computer Interaction (HCI '11)*. ACM, New York, NY, 269-278. https://doi.org/10.14236/ewic/HCI2011.56 (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 BCS Conference on Human-Computer Interaction (HCI '11)*. ACM, New York, NY, 74-83. https://doi.org/10.14236/ewic/HCI2011.30 (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, New York, NY, 363-370. https://doi.org/10.1145/1940761.1940811 (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, New York, NY, 139-148. https://doi.org/10.1145/1531674.1531696 (36% acceptance rate)

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

[c.12]   Daehyoung Lee, **Patrick C. Shih**, Bogoan Kim, Kyungsik Han, Aehong Min, Donetta J. Cothran, Scott Bellini, and Georgia C. Frey. 2020. Objectively measured physical activity and sedentary time in adults with autism spectrum disorder. *Medicine and Science in Sports and Exercise* 52, 7S (July 2020), 290. http://doi.org/10.1249/01.mss.0000676752.92687.of

[c.11]   Yuxing Wu, Elisa Krebs, Adithya Hassan Shankaranand, **Patrick C. Shih**, and Chia-Fang Chung. 2020. Meal Chat: Promoting mealtime social interaction for college students. In *Proceedings of Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI EA '20)*. ACM, New York, NY, LBW247, 1-8. https://doi.org/10.1145/3334480.3382822

[c.10]   K. Cassie Kresnye and **Patrick C. Shih**. 2020. Smart Habitat: A wildlife rehabilitation system. In *Proceedings of Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI EA '20)*. ACM, New York, NY, LBW015, 1-7. https://doi.org/10.1145/3334480.3383093

[c.9]   Juan F. Maestre, K. Cassie Kresnye, Julia C. Dunbar, Ciabhan Connelly, Katie A. Siek, and **Patrick C. Shih**. 2020. Conducting HCI research with people living with HIV remotely: Lessons learned and best practices. In *Proceedings of the Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI EA '20)*. ACM, New York, NY, CS05, 1-8. https://doi.org/10.1145/3334480.3375202 (30% acceptance rate)

[c.8]   Ashley M. Walker, Michael A. DeVito, Juan F. Maestre, Katie A. Siek, K. Cassie Kresnye, Ben Jelen, **Patrick C. Shih**, Maria Wolters, and Mona Alqassim. 2019. ARC: Moving the method forward. In *Proceedings of the Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI EA '19)*. ACM, New York, NY, SIG06, 1-4. https://doi.org/10.1145/3290607.3311763

[c.7]   Yi-Han Hu, Dong-Chul Seo, **Patrick C. Shih**, and Hsien-Chang Lin. 2018. Social relationships, neighborhood disorder, and cognitive decline in elderly: Differences by living arrangement. *Innovation in Aging* 2, suppl_1 (Nov. 2018), 999. https://doi.org/10.1093/geroni/igy031.3692

[c.6]   Austin Toombs, Laura Devendorf, **Patrick C. Shih**, Liz Kaziunas, David Nemer, Helena Mentis, and Laura Forlano. 2018. Sociotechnical systems of care. In *Proceedings of the Companion Publication of the ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW Companion '18)*. ACM, New York, NY, 479-485. https://doi.org/10.1145/3272973.3273010

[c.5]   Juan F. Maestre, Elizabeth Eikey, Mark Warner, Jessica Pater, Maia Jacobs, Svetlana Yarosh, and **Patrick C. Shih**. 2018. Conducting research with stigmatized populations: Practices, challenges and lessons learned. In *Proceedings of the Companion Publication of the ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW Companion '18)*. ACM, New York, NY, 385-392. https://doi.org/10.1145/3272973.3273003

[c.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, New York, NY, 343-346. https://doi.org/10.1145/2724660.2728689 (80% acceptance rate)

[c.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 and Social Computing (CSCW Companion '14)*. ACM, New York, NY, 265-268. https://doi.org/10.1145/2556420.2556483

[c.2]   Kyungsik Han, **Patrick C. Shih**, and John M. Carroll. 2013. Aggregating community information to explore social connections. In *AAAI Technical Report WS-13-04, AAAI Conference on Weblogs and Social Media When the City Meets the Citizen Workshop (WCMCW@ICWSM '13)*. AAAI, Palo Alto, CA, 5-8.

[c.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, New York, NY, 11-20. https://doi.org/10.1145/2212776.2212779 (45% acceptance rate)

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

[W.25]   Alec A. Theisz, Megan Furness, Juan F. Maestre, Vaishnav Kameswaran, Tawanna R. Dillahunt, Tiffany Veinot, and **Patrick C. Shih**. 2020. Transportation practices of people living with HIV in rural areas. In *American Medical Informatics Association Annual Symposium Workshop on Interactive Systems in Health Care (WISH@AMIA '20)*.

[W.24]   Daehyoung Lee, Donetta J. Cothran, Scott Bellini, **Patrick C. Shih**, Kyungsik Han, Bogoan Kim, Aehong Min, Seungwon Paik, and Georgia C. Frey. 2020. Ecological momentary assessment of physical activity, sedentary time, and anxiety in adults with autism spectrum disorder. In *International Society for Autism Research 2020 Annual Meeting (INSAR '20)*.

[W.23]   Aehong Min, K. Cassie Kresnye, and Patrick C. Shih. 2019. A system of equine-assisted therapy: Stakeholders, practices, and issues. In *ACM Conference on Designing Interactive Systems Workshop on Exploring Noticing as Method in Design Research (ArtsOfNoticing@DIS '19)*.

[W.22]   Daehyoung Lee, John M. Kennedy, Donetta J. Cothran, **Patrick C. Shih**, Stephanie Dickinson, Lilian Golzarri-Arroyo, and Georgia C. Frey. 2019. Association between sedentary behavior and cardiovascular disease risk in adults with autism spectrum disorder. Poster presented at the *International Society of Behavioral Nutrition and Physical Activity 2019 Annual Meeting (ISBNPA '19)*.

[W.21]   Aehong Min, Wendy R. Miller, Luis M. Rocha, Katy Börner, Rion Brattig Correia, and **Patrick C. Shih**. 2019. Understanding health information management of people with epilepsy and their caregivers. In *ACM Conference on Human Factors in Computing Systems Workshop on Interactive Systems in Health Care (WISH@CHI '19)*.

[W.20]   Daehyoung Lee, Donetta J. Cothran, John M. Kennedy, **Patrick C. Shih**, Lilian Golzarri-Arroyo, Stephanie Dickinson, and Georgia C. Frey. 2019. Association between physical activity, sedentary time, and technology use in adults with autism spectrum disorder. In *International Society for Autism Research 2019 Annual Meeting (INSAR '19)*.

[W.19]   Christina Colón, Anna N. Baglione, and **Patrick C. Shih**. 2019. The power of music therapy. Poster presented at the *2019 Scientista Symposium (SCISYMP '19)*.

[W.18]   Aehong Min, Flannery Currin, Gustavo Razo, Kay Connelly, and **Patrick C. Shih**. 2018. Characteristics of family and respite care. In *ACM Conference on Computer-Supportive Cooperative Work and Social Computing Workshop on Sociotechnical Systems of Care (Care@CSCW '18)*.

[W.17]   Daehyoung Lee, John M. Kennedy, Donetta J. Cothran, Andrea K. Chomistek, **Patrick C. Shih**, Aehong Min, and Georgia C. Frey. 2018. Physical activity, sedentary behavior, and mobile technology use in adults with disabilities: A survey study. Oral presentation at the *North American Federation of Adapted Physical Activity Symposium (NAFAPA '18)*.

[W.16]   Daehyoung Lee, **Patrick C. Shih**, Scott Bellini, Aehong Min, Donetta J. Cothran, and Georgia C. Frey. 2018. Iterative development of a technology-guided intervention to increase physical activity in adults with autism spectrum disorder. 40 minutes Mini Lecture at the *North American Federation of Adapted Physical Activity Symposium (NAFAPA '18)*.

[W.15]   **Patrick C. Shih**. 2018. Supporting scientific work using end-user data analytics. In *Consortium for the Science of Sociotechnical Systems Decennial Sociotech Futures Symposium (CSST '18)*.

[W.14]   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. Poster presented at the *Consumer Health Informatics in the Midwest (CHIM '18)*.

[W.13] 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. Poster presented at the *Consumer Health Informatics in the Midwest (CHIM '18)*.

[W.12] Juan F. Maestre and **Patrick C. Shih**. 2018. Conducting research with the stigmatized. Poster presented at the *Consumer Health Informatics in the Midwest (CHIM '18)*.

[W.11] 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. In *American Medical Informatics Association Annual Symposium Workshop on Interactive Systems in Health Care (WISH@AMIA '17)*.

[W.10] 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. In *American Medical Informatics Association Annual Symposium Workshop on Interactive Systems in Health Care (WISH@AMIA '17)*.

[W.9] 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. In *American Medical Informatics Association Annual Symposium Workshop on Interactive Systems in Health Care (WISH@AMIA '17)*.

[W.8] Julia C. Dunbar, Ciabhan L. Connelly, Juan F. Maestre, Haley MacLeod, Katie A. Siek, and **Patrick C. Shih**. 2017. Considerations for using the Asynchronous Remote Communities (ARC) method in health informatics research. In *American Medical Informatics Association Annual Symposium Workshop on Interactive Systems in Health Care (WISH@AMIA '17)*.

[W.7] 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.6] Jessica Kropczynski,, Joshua DiCaglio, Joseph Johnson, and **Patrick C. Shih**. 2016. Situated Environmental Awareness. In *Consortium for the Science of Sociotechnical Systems Researchers Summer Research Institute (CSST '16)*.

[W.5] Kyungsik Han, Kristin Cook, and **Patrick C. Shih**. 2016. Exploring effective decision making through human-centered and computational intelligence methods. In *ACM Conference on Human Factors in Computing Systems Workshop on Human Centered Machine Learning (HCML@CHI '16)*.

[W.4] **Patrick C. Shih** and Christena Nippert-Eng. 2016. From Quantified Self to Quantified Other: Engaging the public on promoting animal well-being. In *ACM Conference on Human Factors in Computing Systems Workshop on HCI Goes to the Zoo (ZooTech@CHI '16)*.

[W.3] Sarah-Alice Hanna, Jessica Kropczynski, **Patrick C. Shih**, and John M. Carroll. 2015. Using a mobile application to encourage community interactions at a local event. In *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. In *Collective Intelligence Conference (CI '14)*.

[W.1] **Patrick C. Shih** and Gary M. Olson. 2009. Using visualization to support idea generation in context. In *ACM Conference on Creativity and Cognition Workshop on Creativity and cognition in engineering design: Theoretical and pedagogical issues (CCED@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. (Jan. 2010). Patent No. US 2010/0017583 A1, Filed July 15, 2008, Issued Jan. 21, 2010.

Dissertation and Thesis

[T.2] **Patrick C. Shih**. 2011. *Brainstorming Beyond the Laboratory: Idea Generation Practices in Software Development Firms*. Ph.D. Dissertation. University of California, Irvine, Irvine, CA. UMI Order Number: 3490146.

[T.1] **Patrick C. Shih.** 2005. *Fault-Tolerance for Distributed Publish-Subscribe Systems*. Master's thesis. Carnegie Mellon University, Pittsburgh, PA. OCLC 320526509.

Invited Presentations

[P.19] "Using Technologies to Amplify the Capabilities of Human-Animal Interaction." Keynote speaker at the GT-IDEA Roundtable and Data Jam Conference. February 26, 2021.

[P.18] "Animal Computer Interaction." Luddy Summer Virtual Event Series. July 30, 2020.

[P.17] "Using Technologies to Amplify the Capabilities of Human-Animal Interaction." International Summer School on Animal-Centered Computing, Saint Petersburg Electrotechnical University. July 25, 2020.

[P.16] "Using Technologies to Amplify the Capabilities of Human-Animal Interaction." Indiana HCI Fest, Indiana University. December 5, 2019.

[P.15] "What's Next: Advancing the Vietnam War/American War Oral History Project." Digital Library Brown Bag Series, Indiana University. January 23, 2019.

[P.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.

[P.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.

[P.12] "From Quantified Self to Quantified Other." Department of Computer Science, The University of Texas Rio Grande Valley. October 27, 2017.

[P.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.

[P.10] "Toward Personalized Machine Learning: Fine-tuning Personalized Activity and Behavioral Data with End-User Interactive Visualization." Pacific Northwest National Laboratory. June 23, 2016.

[P.9] "Temporal and Comparative Analysis of Teen and Adult Behaviors on Instagram." Intelligent & Interactive Systems Talk Series, Indiana University Bloomington. April 27, 2016.

[P.8] "Supporting Civic Activities with Machine and Human Computation." School of Computing, Clemson University. February 13, 2015.

[P.7] "Supporting Civic Activities with Machine and Human Computation." Department of Information and Library Science, Indiana University Bloomington. February 4, 2015.

[P.6] "Supporting Civic Activities with Machine and Human Computation." Department of Information Systems, University of Maryland, Baltimore County. January 17, 2015.

[P.5] "Supporting Civic Activities with Machine and Human Computation." Department of Computer Science, University of Bath. January 5, 2015.

[P.4] "Supporting Civic Activities with Machine and Human Computation." Institute of Information Systems and Applications, National Tsing Hua University. December 17, 2014.

[P.3] "Supporting Civic Activities with Machine and Human Computation." School of Computing, University of Leeds. December 15, 2014.

[P.2] "Usability and Bad Design." Human factors and Ergonomics Society, The Pennsylvania State University. February 10, 2014.

[P.1] "Technology in Use: Notes from the Field." Teaching Community Seminar, The Pennsylvania State University. February 27, 2013.

Media Coverage and Interviews

[M.31] "Luddy faculty earn prestigious recognition from Association for Computing Machinery." Luddy News. January 15, 2021.

[M.30] "Shih honored as ACM Senior Member." Luddy News. January 15, 2021.

[M.29] "Grief support systems have been wrecked by COVID-19." The Verge. April 1, 2020.

[M.28] "IU Researcher Creates Health App to Aid Those on Autism Spectrum." Bloom Magazine. March 29, 2020.

[M.27] "Shih earns NSF grant to develop and evaluate shared mobility system for underserved communities." Luddy News. November 12, 2019.

[M.26] "Ph.D. candidate creates gamified health app." Indiana Daily Student. November 12, 2019.

[M.25] "IU Student spends his summer with LSAMP research program developing an app for animal-assisted therapy." IU Engaged Learning. August 1, 2019.

[M.24] "Eight SICE faculty earn Trustees Teaching Awards from IU." Luddy News. April 29, 2019.

[M.23] "SICE researchers earn honors at CHI 2019." Luddy News. April 18, 2019.

[M.22] "SICE researchers to present at NordiCHI 2018." Luddy News. September 12, 2018.

[M.21] "Symposium highlights study of perspectives on Vietnam War." Luddy News. August 9, 2018.

[M.20] "SICE researchers showcased at CHI2018." Luddy News. March 23, 2018.

[M.19] "How to Make Sure Your Activity Tracker Isn't a Waste of Money." PolicyGenius. January 12, 2018.

[M.18] "Two IGI Global Titles Receive Awards." IGI Global News. June 8, 2017.

[M.17] "[인천 실향민 70 명 임진각 방문] '고향땅 저 앞인데… 왜 갈 수 없나.' " Gyeongin Daily, Gyeonggi-do, South Korea. May 26, 2017.

[M.16] "Smartphone Apps Help Geographical Communities – and Pets." Center for Computer-Mediated Communication. November 11, 2016.

[M.15] "Faculty, students at IU Bloomington receive grants for international research, teaching." IU Newsroom. February 3, 2016.

[M.14] "Patrick Shih receives Mellon Innovating International Research, Teaching and Collaboration Fellowship." Luddy News. January 22, 2016.

[M.13] "ILS Welcomes Three New Faculty." Luddy News. July 30, 2015.

[M.12] "Instagram określi twoją dojrzałość?" NextWeb Media, Warsaw, Poland. July 14, 2015.

[M.11] "New version of Arts Festival app enables users to create own experiences." Penn State News. July 6, 2015.

[M.10] "Why & How Teens, Adults Use Instagram." Linkdex. June 23, 2015.

[M.9] "Instagram user demographic study reveals how adult and teens use photo-sharing app." iDigitalTimes. June 3, 2015.

[M.8] "Yes, teens and adults use Instagram differently." ThirdParent. June 3, 2015.

[M.7] "IST researchers examine how teens, adults use Instagram." Penn State News. May 28, 2015.

[M.6] "Carroll awarded $279K grant to develop community engagement app." Penn State News. October 29, 2014.

[M.5] "Penn State's Center for Human-Computer Interaction building an innovative community, one interaction at a time." iConnect Magazine. September 24, 2014.

[M.4] "Arts Fest goes digital with new app." Onward State. July 9, 2014.

[M.3] "Get the 'insider experience' with Central Pennsylvania Festival of the Arts app." Penn State News. July 7, 2014.

[M.2] "Time is of the essence for new banking system developed at IST." Penn State News. June 25, 2014.

[M.1] "IST researchers aim to increase community engagement through local news app." Penn State News. November 1, 2013.

TEACHING AND CURRICULUM DEVELOPMENT

I have taught 15 courses (10 graduate level; 5 undergraduate level) with a total of 315 students (136 graduate level; 179 undergraduate level); given 15 guest lectures; served as a teaching assistant for 6 courses (2 graduate level; 4 undergraduate level).

Indiana University Bloomington

[2018 – 2019 Indiana University Trustees Teaching Award]

Instructor

INFO-I 513	Usable Artificial Intelligence	Class Size: TBA	Spring 2021
INFO-I 413	Course Rating (1-4): TBA	Instructor Rating (1-4): TBA	
INFO-I 527	Mobile and Pervasive Design (Cross-listed)	Class Size: 18	Fall 2020
CSCI-P 535	Pervasive Computing (Cross-listed)		
	Course Rating (1-4): 3.6	Instructor Rating (1-4): 4.0	
INFO-I 590	Topics in Informatics: Usable Artificial Intelligence	Class Size: 14	Spring 2020
INFO-I 400	Course Rating (1-4): 3.5	Instructor Rating (1-4): 4.0	
INFO-I 527	Mobile and Pervasive Design (Cross-listed)	Class Size: 22	Fall 2019
CSCI-P 535	Pervasive Computing (Cross-listed)		
	Course Rating (1-4): 3.1	Instructor Rating (1-4): 2.9	
INFO-I 590	Topics in Informatics: Seminar in Animal-Computer Interaction		
INFO-I 400	Co-Instructor: Christena Nippert-Eng	Class Size: 6	Fall 2019
	Course Rating (1-4): 4.0	Instructor Rating (1-4): 4.0	
INFO-I 527	Mobile and Pervasive Design (Cross-listed)	Class Size: 8	Fall 2018
CSCI-P 535	Pervasive Computing (Cross-listed)		
	Course Rating (1-4): 4.0	Instructor Rating (1-4): 3.9	
INFO-I 590	Topics in Informatics: Seminar in Animal-Computer Interaction		
INFO-I 400	Co-Instructor: Christena Nippert-Eng	Class Size: 17	Fall 2018
	Course Rating (1-4): 3.8	Instructor Rating (1-4): 4.0	
UNIV 184R	Bridge to Informatics (DePauw University)	Class Size: 17	Spring 2018
	Course Rating (1-7): 5.64	Instructor Rating (1-7): 5.29	
INFO-I 527	Mobile and Pervasive Design (Cross-listed)	Class Size: 25	Fall 2017
CSCI-P 535	Pervasive Computing (Cross-listed)		
	Course Rating (1-4): 3.5	Instructor Rating (1-4): 3.7	

[Fall 2017 IU Project and Research Symposium "Most Potential for Social Good" Award]
[Fall 2017 IU Project and Research Symposium "People's Choice"]

UNIV 184G	Bridge to Informatics (DePauw University)	Class Size: 13	Spring 2017
	Course Rating (1-7): 6.55	Instructor Rating (1-7): 5.00	
ILS-Z 516	Human-Computer Interaction	Class Size: 23	Fall 2016
	Course Rating (1-4): 2.4	Instructor Rating (1-4): 2.8	
ILS-Z 604	Social Computing and Computer-Supported Cooperative Work		Class Size: 6
	Spring 2016		
	Course Rating (1-4): 3.0	Instructor Rating (1-4): 3.0	

ILS-Z 516	Human-Computer Interaction	Class Size: 26	Fall 2015
	Co-Instructor: Younei Soe		
	Course Rating (1-4): 2.9	Instructor Rating (1-4): 2.8	

Guest Lecturer

EDUC-U 212	Current Issues in Undergraduate Life (Stemming into IU)	Fall 2020
	Instructors: Kim M. Jenkins, Corryn Anderson	

INFO-I 101	Introduction to Informatics and Computing	Fall 2020
	Instructors: Katie A. Siek, Chase McCoy, Logan Paul	

INFO-I 407	Introduction to Health Informatics	Fall 2015, 2016, 2017, 2018, 2020
INFO-I 507	Instructor: Kay Connelly	

INFO-I 541	Introduction to HCI/d	Fall 2020
	Instructor: Eli B. Blevis	
INFO-I 400	Seminar in Animal-Computer Interaction	Fall 2020
INFO-I 590	Instructor: Christena Nippert-Eng	

INFO-I 400	Cross-Platform Mobile Programming	Fall 2019
	Instructor: Christina Chung	

INFO-I 407	Introduction to Health Informatics	Fall 2019
INFO-I 507	Instructor: Dana Habeeb	

ILS-Z 586	Digital Curation	Fall 2016
	Instructor: Devan Donaldson	

ILS-Z 516	Human-Computer Interaction	Spring 2016
	Instructor: Younei Soe	

UNIV 184D	Bridge to Informatics (DePauw University)	Spring 2016
	Instructor: Katie A. Siek	

ILS-Z 701	Introduction to Doctoral Research in Information Science,	Fall 2015
	Instructors: Howard Rosenbaum and Pnina Fichman	

The Pennsylvania State University

Instructor

IST 413	Usability Engineering	Class Size: 39	Fall 2014
	Course Rating (1-7): 5.59	Instructor Rating (1-7): 5.71	
	[2014 – 2015 1000 Pitches Summit finalist in "Mobile Apps" category (top 9 out of 1083)]		

IST 413	Usability Engineering	Class Size: 39	Spring 2014
	Course Rating (1-7): 5.24	Instructor Rating (1-7): 5.76	

IST 413	Usability Engineering	Class Size: 42	Spring 2013
	Course Rating (1-7): 5.36	Instructor Rating (1-7): 5.64	

Guest Lecturer

IST 473	Digital Design and Innovation	Spring 2015
	Instructor: Lisa (Lee) B. Erickson	

IST 331	Organization and Design of Information Systems: User & System Principles	Spring 2012
	Instructor: Frank E. Ritter	

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 TA Rating (1-9): 8.50	Winter 2008

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

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 Instructors: Priya Narasimhan, Rajeev Gandhi TA Rating (1-9): 8.22 **[Best Teaching Assistant Award Finalist]**	Fall 2004

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

PROFESSIONAL SERVICE

Steering Committee
Human Computer Interaction Consortium (HCIC) Governing Board   Since 2020
Saint Petersburg Electrotechnical University (LETI) Animal-Centered Computing Scientific Board
                                                                           Since 2020
International Conference on Animal-Computer Interaction (ACI)   Since 2018
Institute for Digital Arts and Humanities (IDAH)   Since 2017

Conference and Symposium Chair
Patrick C. Shih. 2021. *Animal-Computer Interaction (ACI '21)*.
Patrick C. Shih and Ronald Osgood (Eds.). 2018. *Vietnam War/ American War Stories: A Symposium on Conflict and Civic Engagement*.

Program Chair
Patrick C. Shih. 2020. *Animal-Computer Interaction (ACI '20)*.
Patrick C. Shih and Juan Haladjian (Eds.). 2019. *Animal-Computer Interaction (ACI '19)*.
Starr Roxanne Hiltz, Mark S. Pfaff, Linda Plotnick, and **Patrick C. Shih** (Eds.). 2014. *Information Systems for Crisis Response and Management (ISCRAM '14)*.

Workshops Co-Chair
Patrick C. Shih. 2022. *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '22)*.

Workshops and Panels
Juan F. Maestre, Elizabeth Eikey, Mark Warner, Jessica Pater, Maia Jacobs, Svetlana Yarosh, and **Patrick C. Shih**. 2018. *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '18): Workshop on Conducting Research with Stigmatized Populations: Practices, Challenges and Lessons Learned*.
Austin Toombs, Laura Devendorf, **Patrick C. Shih**, Liz Kaziunas, David Nemer, Helena Mentis, and Laura Forlano. 2018. *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '18): Workshop on Sociotechnical Systems of Care*.
Christena Nippert-Eng and **Patrick C. Shih** (Eds.). *Annual Meeting of the Society for Social Studies of Science (4S '18). Panel on Animals and Technology Around the World, Past and Present*.

Journal Associate Editors
Frontiers in Digital Health (FDGTH)   Since 2020
International Journal of Crisis Response and Management (IJCRAM)   2020

Journal Editorial Review Board
Proceedings of the ACM on Human-Computer Interaction, Computer-Supported Cooperative Work and Social Computing (PACMHCI-CSCW)   2018-1st, 2018-2nd, 2020
Proceedings of the ACM on Human-Computer Interaction, Supporting Group Work (PACMHCI-GROUP)
                                                                           2020-1st, 2020-2nd, 2022
International Journal of Information Systems for Crisis Response and Management (IJISCRAM)
                                                                           2016 – 2020

Conference Program Committee

[* Special Recognitions for Outstanding Reviews]

Human Factors in Computing Systems (CHI)   2016, 2018, **2021***
Computer Supported Cooperative Work and Social Computing (CSCW)   2015, 2018, 2020
Designing Interactive Systems (DIS)   2016, 2019, **2020***
Pervasive Computing Technologies for Healthcare (PervasiveHealth)   2018, 2019, 2020
Supporting Group Work (GROUP)   2018, 2020, 2022
iConference (iConf)   2015, 2016, 2019
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
Human-Computer Interaction with Mobile Devices and Services (MobileHCI)   2018
Web Science (WebSci)   2016, 2017, 2018
Chinese CHI (Chinese CHI)   2015, 2016, 2017, 2018, 2019, 2020
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
Information Systems for Crisis Response and Management (ISCRAM)   2014
Human-Centered Computing (HCC)   2014
Presence (ISPR)   2012, 2014

Grant Panelist and Reviewer
National Science Foundation (NSF) Panelist   2016, 2017, 2018, 2020, 2021
National Science Foundation (NSF) Reviewer   2015, 2019

Journal Paper Reviewer
Frontiers in Computer Science (FCOMP)   2020
International Journal of Human-Computer Studies (IJHCS)   2015, 2017, 2019
PeerJ Computer Science (PeerJ CS)   2016, 2019
Proceedings of the ACM on Human-Computer Interaction (PACMHCI-CSCW)
    Student Reviewer Program Mentor   2019
Behaviour & Information Technology   2019
Health Informatics Journal   2019
ACM Transactions on Computer-Human Interaction (TOCHI)   2017, 2018, 2020
Communications of the ACM   2017, 2018
Journal of International Humanitarian Action   2018
Information   2018
International Journal of Environmental Research and Public Health (IJERPH)   2015, 2017
PLOS ONE   2016
Interacting with Computers (IwC)   2016
Information, Communication & Society (ICS)   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

[* Special Recognitions for Outstanding Reviews]

Human Factors in Computing Systems (CHI)   2011, 2012, 2013, 2014, 2015, **2017***, 2019, **2020***
Computer Supported Cooperative Work and Social Computing (CSCW)   2012, 2013, 2014, **2016***, 2017
Designing Interactive Systems (DIS)   **2017***, 2018
iConference (iConf)   2017, 2018, 2020, 2021
Human-Computer Interaction with Mobile Devices and Services (MobileHCI)   2020
Computer Supported Collaborative Learning (CSCL)   2015, 2017, 2019
Workshop on Interactive Systems in Healthcare (WISH)   2013, 2020
Hawaii International Conference on System Sciences (HICSS)   2017, 2019
Australian Conference on Computer-Human Interaction (OZCHI)   2017, 2018
European Conference on Information Systems (ECIS)   2018
International Conference on Human-Computer Interaction (INTERACT)   2017
Interactive Surfaces and Spaces (ISS)   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

Best Paper Award Committee
iConference (iConf)   2019

Doctoral Consortium Committee
Annual Meeting of the Association for Information Science and Technology (ASIS&T)   2017

Marketing and Communication Committee
Information Systems for Crisis Response and Management (ISCRAM)   2014

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

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

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

Student Volunteer Chair
Computer Supported Cooperative Work and Social Computing (CSCW)   2011

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

ACADEMIC SERVICE

Indiana University Bloomington

Campus-level Service
Institute for Digital Arts and Humanities (IDAH) Steering Committee   Since 2017
Institute for Digital Arts and Humanities (IDAH) Research and Pedagogy Advocacy Subcommittee
                                                                              Since 2017
Bloomington Faculty Council–Creation, Reorganization, Elimination, and Merger Committee (BFC-
CREM)   2018 – 2019
Bloomington Faculty Council (BFC)   2016 – 2019
Bloomington Faculty Council–Faculty Affairs Committee (BFC-FAC)   2016 – 2018

School-level Service
Luddy Director of Graduate Studies for Data Science   Since 2020
Luddy Human Computer Interaction Consortium (HCIC) Coordinator   2016 – 2018, Since 2020
Luddy CHI Writing Workshop Organizer   2016 – 2019
Luddy Scholarship Committee   2017 – 2018
Luddy Director of Dean's External Affairs Search Committee   2017 – 2018
Luddy Web Development Manager Search Committee   2016 – 2017
Luddy Director of Computing Outreach Education Search Committee   2016 – 2017
Luddy Spring Projects and Research Symposium Judge   2015 – 2017
Luddy Fall Projects and Research Symposium Judge   2015 – 2017

Department-level Service

INFO PhD and MS Animal Informatics Track Co-Director	Since 2020
INFO PhD Minor in Animal-Computer Interaction Co-Director	Since 2020
INFO BS Cognate/Minor in Animal-Computer Interaction Co-Director	Since 2020
INFO Animal Informatics 4+1 BS/MS Curriculum Development	Since 2020
INFO Honors Program Curriculum Committee	Since 2019
INFO Proactive Health Informatics Space Coordinator	Since 2017
INFO PhD and MS Animal Informatics Track Curriculum Development	2016 – 2020
INFO PhD Minor in Animal-Computer Interaction Curriculum Development	2016 – 2020
INFO BS Cognate/Minor in Animal-Computer Interaction Curriculum Development	2016 – 2020
INFO Lecturer in Informatics Program Search Committee	2017 – 2018
INFO HCI/Interaction Design, Course Coordinator	2016 – 2017
INFO Proactive Health Informatics Faculty Search Committee	2015 – 2016
ILS MIS and MLS Social Computing Specialization Director	2015 – 2016
ILS Graduate Admission and Scholarship Committee	2015 – 2016
ILS Graduate Programs Subcommittee on MIS Curriculum	2015 – 2016

The Pennsylvania State University

Campus-level Service

Postdoc Research Exhibition, Judge	2013 – 2015
College of Engineering Research Symposium Judge	2013 – 2014
Graduate Student Research Exhibition Judge	2012 – 2014

School-level Service

IST Scholarship Committee	2014 – 2015
IST Awards Committee	2014 – 2015
IST College Assessment Committee	2014 – 2015
IST Web Committee	2012 – 2015
IST Human Computer Interaction Curriculum Committee	2012 – 2015
IST Human Computer Interaction Special Interests Group	2012 – 2015
IST Undergraduate Commencement Ceremony Faculty-at-large	2012 – 2014

University of California, Irvine

UC Irvine Informatics Graduate Student Association Board Committee and Social Chair	2010 – 2011

University of California, Los Angeles

Engineering Society of UCLA (ESUC) Junior Class Representative	2002 – 2003
IEEE Micromouse Team Officer	2001 – 2002
Eta Kappa Nu National Engineering Honor Society Project Committee	2001 – 2002
Tau Beta Pi National Engineering Honor Society Resume Book Committee Chair	2001 – 2002

MEMBERSHIP

ACM Senior Member (top 25% of ACM)	Since 2020
ACM Lifetime Member	Since 2015

MENTORSHIP

I supervised 46 undergraduate (24 females, 18 underrepresented) research projects including 14 NSF REUs (8 females, 4 underrepresented); advised 1 postdoc (1 female); advised 5 PhD students (4 females, 1 underrepresented); served on 14 Ph.D. student committees (5 females, 1 underrepresented); supervised additional 12 Ph.D. (5 females) and 31 M.S. (11 females, 1 underrepresented) graduate independent projects.

Indiana University Bloomington

[2018 – 2019 IU Groups Scholars Program STEM Mentor of the Year]
[2016 – 2017 IU Office of Mentoring Services and Leadership Development Award]

CS = Computer Science
DS = Data Science
ILS = Information and Library Science
INFO = Informatics
ISE = Intelligent Systems Engineering

Postdoc (1 postdoc, 1 female)

Hong Qiao (Shandong Normal University, School of Management Science and Engineering)   2015 – 2018

Doctoral Students

Advisory Committee = Pre-candidacy Committee
Research Committee = Dissertation Committee
Doctoral Committee = External Dissertation Committee

Chair (5 students, 4 females, 1 underrepresented)
K. Cassie Kresnye   Advisory 2017 – 2020; Research Since 2020
Aehong Min   Advisory 2016 – 2019; Research Since 2019
Juan Fernando Maestre   Advisory 2015 – 2018; Research Since 2018
Gege Gao   Advisory 2016 – 2019
Anna N. Baglione   Advisory 2016 – 2018

Committee Member (14 students, 5 females, 1 underrepresented)
Patrick T. S. Lai (IUPUI; INFO)   Research Since 2020
Tom Ongwere (INFO Health, HCI Minor Advisor)   Advisory 2016 – 2020; Research Since 2020
Shengnan Yang (ILS)   Advisory 2015 – 2019; Research Since 2019
Andreas Bueckle (ILS, INFO Minor Advisor)   Advisory 2015 – 2018; Research Since 2018
Anna N. Baglione (University of Virginia; Systems Engineering)   Doctoral Since 2018
Zhi Wang (Applied Health Science, DS Minor Advisor)   Research 2019 – 2020
Cedomir Stanojevic (Recreation, Park, and Tourism Studies, INFO Minor Advisor) Advisory 2019 – 2020
Daehyoung Lee (Kinesiology, INFO Minor Advisor)   Advisory 2016 – 2019; Research 2019 – 2020
Sanchari Das (INFO Privacy)   Independent Study 2017 – 2018; Research 2018 – 2020
Lucas Cook (INFO CCS)   Advisory 2017 – 2018; Research 2018 – 2020
Yi-Han Hu (Applied Health Science, INFO Minor Advisor)   Advisory 2017 – 2018; Research 2018 – 2019
Dahee Chung (ILS)   Research 2015 – 2017
Sara Tena Garcia (Universidad Carlos III de Madrid; CS and Technology)   Doctoral 2013 – 2016

Independent Study Advisor (7 students, 2 females)
Swapna Chandrashekhar Joshi (INFO CCS)   Since 2017
Zheng Gao (ILS)   2015 – 2019
Jacob Norman Hagstrom (History)   2017 – 2018
Stephen Sher (INFO)   2017 – 2018

Vincent Malic (ILS)	2015 – 2018
Pei-Ying Chen (ILS)	2015 – 2017
Chase Matthew McCoy (ILS)	2015 – 2016

International Exchange Program Advisor (1 student)

Bogoan Kim (Ajou University, Artificial Intelligence)	Summer 2019

Master's Students

Independent Study Advisor (26 students, 8 females)

Bhakti Sunil Narvekar (CS)	2020 – 2021
Sonia Ashok Kargutkar (CS)	2020 – 2021
Daksha Maruti Nagre (CS)	2020 – 2021
Ishita Kumar (CS)	2020 – 2021
Sairaj Rajendra Gaonkar (CS)	2020 – 2021
Kaustubh Dattatraya Bhalerao (CS)	2020 – 2021
Suyash Santosh Poredi (CS)	2020 – 2021
Manuja Sanjay Bandal (CS)	2020 – 2021
Rushabh Shah (DS)	2020 – 2021
Jashjeet Singh Madan (DS)	2020 – 2021
Sumeet Sarode (DS)	2020 – 2021
Yash Kumar (DS)	2020 – 2021
Biraj Ketan Parikh (DS)	2020 – 2021
Senthil Esakkiappan (DS)	2019 – 2020
Harish Maruthi (CS)	2019 – 2020
Sai Rohith Achanta (CS)	2019 – 2020
Mike Szakaly (INFO)	2018 – 2019
Zackary Jones (Master of Fine Arts: Graphic Design)	2017 – 2018
Jaeson Jackson (Media: Design and Production)	2017 – 2018
Eric Johannes Blom (Media: Journalism)	2017 – 2018
Jinsu Kim (DS)	2017 – 2018
Gurleen Dhody (CS)	2017 – 2018
Revathy Sridharan (ILS)	2015 – 2017
Rounak Choudhary (ILS)	2015 – 2017
Yu-Chen Huang (ILS)	2015 – 2017

International Exchange Program Advisor (1 student)

Seungwon Paik (Ajou University, Software and Computer Engineering)	Summer 2019

Undergraduate Students (39 students, 22 females, 18 underrepresented)

CEW&T = Emerging Scholars Research Experiences for Undergraduate Women
Cox = Cox Research Scholars Program
FMI = Faculty Mentoring Initiatives
Groups = Groups STEM Mentoring Program
IND = Independent Study
IUUR = IU Undergraduate Research
LSAMP = Indiana STEM Louis Stokes Alliance for Minority Participation
NSF REU = NSF Research Opportunities for Undergraduates
RSCP = Research Scholars Cohort Program
SREP = Groups STEM Summer Research Experience Program
UROC = Undergraduate Research Opportunities in Computing

Oliver Melbourne Allen (INFO)	NSF REU Since 2021
Kenneth Harper (INFO)	NSF REU Since 2021
Samantha Rasmussen (CS)	CEW&T Since 2020
Mia Gallardo (Astronomy and Astrophysics)	SREP Summer 2020; CEW&T Since 2020

Dara Groves (Psychology)   SREP Summer 2020; IUUR Since 2020
Cristian A. Villanueva (INFO)   RSCP 2019 – 2020; LSAMP Summer 2020; IUUR Since 2020
Alec Andrew Andrew Theisz (INFO)   NSF REU Summer 2020; Cox Since 2018
Megan Furness (Biochemistry)   CEW&T 2019 – 2020; NSF REU Summer 2020, Since 2020
Christina Colón (INFO)   SREP Summer 2018; RSCP 2019 – 2020; Groups Since 2018; IUUR Since 2020
Alex M. Lutz (INFO)   B.S. Thesis 2019 – 2020
Iesha M. Young (INFO)   CEW&T, RSCP 2019 – 2020
Annie Phelps (Biology)   CEW&T 2018 – 2019; IND 2019 – 2020
Lilia Jacqui Garcia (Neuroscience)   SREP Summer 2020
Jamie Russell (INFO)   IND 2019 – 2020
Isaac Navarrete (ISE)   Groups 2019 – 2020
JeVante Qaiyim (CS)   LSAMP Summer 2019; RSCP 2019 – 2020; Groups 2018 – 2020
Andy Zheng (INFO)   FMI 2018 – 2019
Joshua Johnson (INFO)   Groups 2018 – 2019
Alexa Spasevski (Cognitive Science)   CEW&T 2018 – 2019
Jada Marshall (Information Systems)   SREP Summer 2019
Gustavo Razo (UC Merced; Applied Mathematics)   NSF REU Summer 2018; IND 2018 – 2019
Flannery Currin (Earlham College; CS, Psychology)   NSF REU Summer 2018; IND 2018 – 2019
Justin Alexander (INFO)   LSAMP Summer 2018
Meagan Price (Claflin University; Computer Engineering)   NSF REU Summer 2017; IND 2017 – 2018
Ciabhan L. G. Connelly (Political Science and Government) NSF REU Summer 2017; IND 2017 – 2018
Julia Dunbar (Sienna College, CS)   NSF REU Summer 2017; IND 2017 – 2018
Gabrielle S. Cantor (ISE)   NSF REU Summer 2017; CEW&T 2017 – 2018
Saul Martinez Jr. (INFO)   SREP Summer 2018
Rachel Sawchuk (CS)   UROC 2017 – 2018
Hannah Blalock (Public Affairs, Nonprofit Management and Leadership)   CEW&T 2017 – 2018
Cody Banister (CS)   UROC 2016 – 2017; IND 2017 – 2018
Ali A. Talib (INFO)   SREP Summer 2017
William Cole Smith (Physics)   SREP Summer 2017
Maxine Marie Girard (Simmons College; CS)   NSF REU Summer 2017
Sergio Ramirez Martin (Transylvania University; CS, Mathematics, Physics)   NSF REU Summer 2017
Qian (Judy) Dai (CS)   UROC 2016 – 2017
Lee Hiler (INFO)   UROC 2015 – 2016; IND 2016 – 2017
Alize Dickey (Psychology)   SREP Summer 2016
Marille Velez (Public Health, Community Health)   SREP Summer 2016
Grace Bastin (INFO)   NSF REU Summer 2016
Vanessa Pereira (INFO)   NSF REU Summer 2016

The Pennsylvania State University

CSE = Computer Science and Engineering
IST = Information Sciences and Technology
SRA = Security and Risk Analysis

Doctoral Students (5 students, 3 females)

Kyungsik (Keith) Han (IST)   Doctoral Committee 2012 – 2015
Saijing Zheng (IST)   Doctoral Mentor 2013 – 2015
Yu Wu (IST)   Doctoral Mentor 2012 – 2015
Sara Tena Garcia (Universidad Carlos III de Madrid; CS and Technology)   Doctoral Mentor Summer 2013
Jing Wang (IST)   Doctoral Mentor 2012 – 2013

Master's Students (3 students, 2 females, 1 underrepresented)

Unsuk Heo (CSE)   Independent Study Advisor 2014 – 2015
Saloni J. D. Vaghela (IST)   Master's Thesis Advisor 2014 – 2015
Joslenne Pena (IST)   Master's Thesis Mentor 2013 – 2015

Undergraduate Students (4 students, 2 females)

SURF = Summer Undergraduate Research Fellowship
CRA-WP DREU = Distributed Research Experiences for Undergraduates

Brett Holden (SRA: Information and Cyber Security, Russian)	Honors Thesis Advisor 2014 – 2015
Sarah-Alice Hanna (Barnard College; CS, Mathematics)	CRA-WP DREU Summer 2014
Liam Neigh (IST, French and Francophones Studies)	SURF Summer 2014
Diana Zhang (CSE)	SURF Summer 2013

University of California, Irvine

Master's Students (1 student, 1 female)

Jana Schumann (Otto von Guericke University Magdeburg; Computational Visualistics)
<div align="right">Master's Thesis Mentor Summer 2011</div>

Undergraduate Students (1 student)

Sen Hirano (INFO)   Research Mentor Spring 2008

REFERENCES

Christena Nippert-Eng
Professor
Department of Informatics
Indiana University Bloomington
Phone: +1 (812) 856-9829
E-mail: cnippert@indiana.edu

John M. Carroll
Distinguished Professor
College of Information Sciences and Technology
The Pennsylvania State University
Phone: +1 (814) 863-2476
E-mail: jcarroll@ist.psu.edu

Gary M. Olson
Professor Emeritus[1, 2]
[1]Department of Informatics
University of California, Irvine
[2]School of Information
University of Michigan
Phone: +1 (949) 824-0077
E-mail: gary.olson@uci.edu

Mary Beth Rosson
Professor
College of Information Sciences and Technology
The Pennsylvania State University
Phone: +1 (814) 863-3450
E-mail: mrosson@ist.psu.edu

David F. Redmiles
Professor
Department of Informatics
University of California, Irvine
Phone: +1 (949) 824-3823
E-mail: redmiles@ics.uci.edu

Judith S. Olson
Professor Emeritus[1, 2]
[1]Department of Informatics
University of California, Irvine
[2]School of Information
University of Michigan
Phone: +1 (949) 824-0080
E-mail: jolson@uci.edu