

Yung-Ju Chang

School of Information
University of Michigan
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Education

- University of Michigan**, School of Information at, Ann Arbor, Michigan 2010 – Present
Ph.D. Candidate in Information Science
Advisor: Prof. Mark W. Newman
- University of Michigan**, School of Information at, Ann Arbor, Michigan 2007 –2009
M.S in Information Science
Specializations in Human Computer Interaction (HCI) and Incentive-Centered Design (ICD)
- National Chiao Tung University**, Hsinchu, Taiwan 2001 –2005
Bachelor of Science in Computer Science and Information Engineering

Research Interests

Human Computer Interaction (HCI), Ubiquitous and Context-Aware Computing, Mobile Crowdsourcing/sensing, Interaction Design Process, Mobile Information Behavior, City Learning and Environmental Cognition, Urban Computing and Smart City

Work and Research Experience

- Graduate Researcher, University of Michigan, Ann Arbor, MI** 09/2010 – Present
with Prof. Mark W. Newman
- Microsoft Research Intern, Mountain View, CA** 06/2013 – 08/2013
with Dr. John C. Tang
- FT Research Assistant, University of Michigan, Ann Arbor, MI** 06/2009 – 05/2010
with Dr. Michael Mcquaid
- User Experience Intern, Acer Inc. e-Enabling Data Center, Taipei, Taiwan** 05/2008 – 08/2008
with Dr. Simon Chang

Teaching Experience

Graduate Student Instructor

SI622 Needs Assessment and Usability Evaluation

University of Michigan, School of Information, Winter 2013, 2015, 2016, (graduate course)

Mentored interdisciplinary teams to design research studies for evaluating user needs and system usability.

Graduate Student Instructor

SI502 Networked Computing: Storage, Communication, and Processing

University of Michigan, School of Information, Fall 2012, 2015, (graduate course)

Taught three discussion sections each week (40-50 students total)

Publications

Conference Proceedings

Chang, Y.J., Paruthi, G., Newman, M.W. A Field Study Comparing Three Crowd-Based Approaches for Labeling Activity Data. *In Proceedings of the 17th international conference on Ubiquitous computing (UbiComp 2015)*

Chang, Y.J., Tang, C.J. Investigating Mobile Users' Ringer Mode Usage and Attentiveness and Responsiveness to Incoming to Communication. *In Proceedings of the 17th International Conference on Human Computer Interaction with Mobile Devices and Services (MobileHCI 2015)*

Chang, Y.J., Newman, M.W. Making Local Information More Accessible: A Diary Study of Information Channel Selection of Mobile Users. *In Proceedings of the 3rd International Symposium of Chinese CHI (ChineseCHI 2015)*.

Chang, Y.J., Hong, P.Y., Newman, M.W. TraceViz: "Brushing" for Location Based Services. *In Proceedings of the 14th International Conference on Human Computer Interaction with Mobile Devices and Services (MobileHCI 2012)*

Workshop Papers

Chang, Y.J., Paruthi, G., Newman, M.W. Challenges in Using Wearable Camera and Phone Logs to Generate Ground Truth of Transportation Activities. *In Proceedings of the 17th international conference on Ubiquitous computing. (UbiComp 2015, WMSC)*

Chang, Y.J., Newman, M.W. Understanding Active Mobile Users' Choice of Information Channels to Address Information Needs. *In Proceedings of the 14th International Conference on Human Computer Interaction with Mobile Devices and Services (Mobility and Web Behavior in MobileHCI '12)*

Chang, Y.J., Newman, M.W. Investigating the Information Source Selection Phenomenon in a Mobile Environment. (Chinese CHI in CHI'13)

Chang, Y.J., Newman, M.W. Integrating Capture & Playback into Context-Aware Systems Development in (ChineseCHI in CHI'13)

Demos & Posters

Chang, Y.J., Chou, S.H., Li, L., Liu, M.C., Ruan, S. Xpress: Crowdsourcing Native Speakers to Learn Colloquial Expressions in a Second Language. *In Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2013)*

Chang, Y.J., Hong, P.Y., Newman, M.W. TraceViz: "Brushing" for Location Based Services. *In Proceedings of the 14th International Conference on Human Computer Interaction with Mobile Devices and Services (MobileHCI 2012)*

Chang, Y.J., Newman, M.W. An Investigation of How Trace Segmentation Impact Feature Selection for Transportation Mode Recognition. *In Proceedings of the 14th international conference on Ubiquitous computing (UbiComp 2012)*

Ming, J., Tao, D., **Chang, Y.J.** Structure and Reciprocity in Technology-centered Q&A Communities. *In Proceedings of the International Conference on Weblogs and Social Media (ICWSM 2011)*

In Submission or In Preparation for Submission

Chang, Y.J., et al. Using Mobile and Situated Crowdsourcing to Collect Annotated Travel Activity Data in the Wild. (In submission to the International Journal of Human-Computer Studies)

Chang, Y.J., et al. An Investigation of Using Capture-And-Playback to Support Prototyping, Testing, and Evaluation of Location-Aware Applications: Findings and Lessons Learned (In preparation for submission to ACM Transactions on Computer-Human Interaction)

Chang, Y.J., Newman, M.W. Minuku: A Context-Triggered Mobile Data Collection Tool for Behavioral Research and Situated Crowdsensing (In preparation for UbiComp 2016)

Invited Talks

“Designing a better context-aware application”

- Department of Computer Science, National Taiwan University, Taiwan. Dec. 2015
- Department of Computer Science, National Tsing Hua University, Taiwan. Dec. 2015

“Studying daily life behaviors and context using mobile phones”

- Graduate Institute of Library and Information Studies, National Taiwan Normal University, Taiwan. May. 2015
- HPX, Taiwan. July 2015

“Context-Aware Computing: Application, Research, and Design”

- Academia Sinica, Taiwan. June, 2015
- ASUS Design Center, Taiwan. Jul., 2015

“Reflection on studying and researching HCI abroad”

- Master Program in Digital Content and Technologies, National Chengchi University, Taiwan. May. 2015

“Mobile Crowdsourcing: Why, How, and When?”

- Department of Computer Science, National Tsing Hua University, Taiwan. Dec. 2014
- Department of Computer Science, National Chengchi University, Taiwan. Dec. 2014

- Department of Information and Management, National Sun Yat-Sen University, Taiwan. Dec. 2014

“Two studies using mobile apps to measure user behavior”

- Mobile Developer Community, University of Michigan, Ann Arbor. Sept. 2014

“Understand how HCI helps you design a better interactive system”

- Department of Computer Science, National Chiao Tung University, Taiwan. May. 2011
- Department of Public Relations and Advertising, Shih Hsin University, Taiwan. May. 2011
- Graduate Institute of Library and Information Science, National Taiwan Normal University, Taiwan. June. 2011

“Comparing Crowd-Based Approaches for Collecting Annotated Activity Data”

- School of Information, University of Michigan, Ann Arbor, MI, USA. March, 2015

“Knowing and Learning Interaction Design”

- Industrial Technology Research Institute, Taiwan. June. 2011
- UiGathering, May, Taiwan. May. 2011

Award

Rackham Chia-Lun Lo Fellowship 2013 Recipient

University of Michigan, Ann Arbor, MI, USA

Professional Services

Conference Program Committee

Chinese CHI 2014 (Poster Chair)

Conference Paper and Note Reviewer

CHI 2016, iConference 2016, Ubicomp 2014, ChineseCHI 2014, UIST 2013

Memberships

Association for Computing Machinery (ACM)

ACM Special Interest Group on Computer-Human Interaction (SIGCHI)

Michigan Interactive & Social Computing (MISC) Organizer, 2012

Conference Student Volunteer

CSCW 2012, UPA 2011, HCI International 2011. CHI 2015