Yung-Ju (Stanley) Chang

Department of Computer Science
National Chiao Tung University
1001 University Road, Hsinchu, Taiwan 300, ROC
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Education

University of Michigan, School of Information at**,** Ann Arbor, Michigan   2010 – 2016
Ph.D. 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
B.S. 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 Experience

Assistant Professor, National Chiao Tung University, Hsinchu, Taiwan   08/2016 – Present

Research Associate, University of Michigan, Ann Arbor, MI   06/2016 – 07/2016

Microsoft Research Intern, Mountain View, CA   06/2013 – 08/2013
with Dr. John C. Tang

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

Instructor
IOC5179 User-Centered Interaction Design (English Lecture)
Department of Computer Science, National Chiao Tung University, Fall 2016, Fall 2017.

Instructor
IOC5179 User Experience and Usability Evaluation (English Lecture)
Department of Computer Science, National Chiao Tung University, Winter/Spring 2017

Graduate Student Instructor
SI622 Needs Assessment and Usability Evaluation
School of Information, University of Michigan, Winter 2013, 2015, 2016

Graduate Student Instructor
SI502 Networked Computing: Storage, Communication, and Processing
School of Information, University of Michigan, Fall 2012, 2015

Publications

Peer-Reviewed Conference Papers

[C.1.] Ho, K.T., King, C.T., Das B. and **Chang, Y.J**. "Characterizing Display QoS Based on Frame Dropping for Power Management of Interactive Applications on Smartphones". In 2018 Design, Automation Test in Europe Conference Exhibition (DATE), 873–876.

[C.2.] Hu, H.N., Lin Y.C., Liu, M.Y., Cheng, H.T., **Chang, Y.J.,** Sun, M. "Deep 360 Pilot: Learning a Deep Agent for Piloting through 360° Sports Videos.". *In IEEE Conference on Computer Vision and Pattern Recognition* (CVPR 2017)

[C.3.] Lin Y.C., **Chang, Y.J.,** Hu, H.N., Cheng, H.T., Huang, C.W., Sun, M. "Tell Me Where to Look: Investigating Ways for Assisting Focus in 360° Video". *In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, 2017* (CHI 2017)

[C.4.] **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)

[C.5.] **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)

[C.6.] **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).

[C.7.] **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)

Journal and Magazine

[J.1.] Paruthi. G., Raj. S., Gupta. A., Huang C.C., **Chang, Y.J.**, Newman M.W, "Heed: Exploring the Design of Situated Self-Reporting Devices" (To appear in Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. IMWUT 2018).

[J.2.] Chiang, P. Y., Chang. H. Y., and **Chang, Y.J.** 2018. PotteryGo: A Virtual Pottery Making Training System. IEEE Computer Graphics and Applications 38, 2: 74–88.

[J.3.] Hsu, C.H., Ku, C.L., **Chang, Y.J.**, Wang, Y.S., Traˆn, U. Cheng, W.H., Yang, C.Y., Hsieh, C.Y., Lin, C.C., "iTour: Making Tourist Maps GPS-Enabled". Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 1, 4: 139:1–139:27. (IWMUT 2018)

[J.4.] **Chang, Y.J**., Paruthi. G., Wu, H.Y., Lin, H.Y., Newman, M.W "An Investigation of Using Mobile and Situated Crowdsourcing to Collect Annotated Travel Activity Data in Real-Word Settings." *International Journal of Human-Computer Studies*, Special Issue on Mobile and Situated Crowdsourcing 102, 81–102. (IJHCS 2017)

Workshop Papers

[W.1.] Bayer, J., **Chang, Y.J,** Hedstrom, A., Mount, J. , Chang, H.C. "Evading Confounds in ESM/EMA Studies with Context-Triggers", *In Proceedings of the 12th International Conference on Web and Social Media* (ICSWSM Lab & Field in ICSWM 2018)

[W.2.] **Chang, Y.J,** Chung, Y.J., Shih, Y.H., Chang, H.C., Lin, T.H. "What Do Smartphone Users Do when They Sense Phone Notifications?" . *In Proceedings of the 19th international conference on Ubiquitous computing* (UbiTtention'17 in Ubicomp 2017) **[Best Paper Award]**

[W.3.] Chen, K.Y., Lee, H.P., Lin C.H., Chang, Y.J. "Who Matters: A Closer Look at Interpersonal Relationship in Mobile Interruptibility" (UbiTtention'17 in Ubicomp 2017)

[W.4.] **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.* (WMSC in Ubicomp 2015)

[W.5.] **Chang, Y.J**., Tang, C.J. Investigating Mobile Users' Ringer Mode Usage and Attentiveness and Responsiveness to Incoming to Communication. *Taiwan Computer-Human Interaction 2015* (TAICHI 2015) **[Honorable Mention Paper Award]**

[W.6.] **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)

[W.7.] **Chang,Y.J.,** Newman, M.W. Investigating the Information Source Selection Phenomenon in a Mobile Environment. (ChineseCHI in CHI'13)

[W.8.] **Chang,Y.J.,** Newman, M.W. Integrating Capture & Playback into Context-Aware Systems Development in (ChineseCHI in CHI'13)

Demos & Posters

[P.1.] Paruthi G., Raj, S., Gupta, A., Huang C.C., Chang, Y.J., Newman. M.W. HEED: Situated and Distributed Interactive Devices for Self-Reporting, In Proceedings of the 17th international conference on Ubiquitous computing (Ubicomp 2017)

[P.2.] **Chang, Y.J**., Chou, S.H., Li, L., Liu., M.C., Ruan, S. What Do Smartphone Users Do when They Sense Phone Notifications? *Taiwan Computer-Human Interaction 2017* (TAICHI 2017) **[Best Poster Award]**

[P.3.] **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)

[P.4.] **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)

[P.5.] 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)

Symposium Lectures & Presentations

[L.1.] **Chang Y** , Studying Daily Life Behaviors and Context Using Mobile Phones. Symposium lecture at Association for Information Science and Technology 2017, Taipei, Taiwan.

[L.2.] Radesky JS, **Chang Y**, Newman M. Using Technology to Measure Technology. Symposium lecture at Obesity Week 2017; Washington, D.C.

[L.3.] Radesky JS, **Chang Y**, Newman M. Mobile device passive sensing: Pilot study of parent-child dyads. Symposium lecture at Society for Research in Child Development: Technology, Media, and Child Development 2016; Irvine, CA.

[L.4.] **Chang Y** , "Two studies using mobile apps to measure user behavior." Symposium lecture at Mobile Developer Community 2014, Ann Arbor, MI.

Research Grant

[1] 探索與發展收集與播放高品質標註使用者行為資料之方法與平台—以開發情境感知系統為目的 (No. 106-2221-E-009 -141, Principal Investigator), 2016

[2] 連結虛擬與現實: 虛擬世界之智慧通知服務系統之研究與設計 (No. 105-2218-E-009 -035, Principal Investigator, 2017

[3] 數位金融資料中研發多維度數位金融魔方探勘技術與應用--數位金融資料中研發多維度數位金融魔方探勘技術與應用 (No. 106-3114-E-009 -010, Principal Investigator), 2017

[4] 『注意力中心之社群運算』: 建立資訊接受度感知之行動通知與電腦媒介溝通系統 (No. 107-2218-E-009 -030 -MY3, Principal Investigator), 2018

Award

MediaTek Junior Chair Professor Program Award, 2016
National Chiao Tung University, Hsingchu, Taiwan

Rackham Chia-Lun Lo Fellowship, 2013
University of Michigan, Ann Arbor, MI, USA

Professional Services

Conference Organizing and Program Committee

ACM MobileHCI 2019, Local Arrangement Co-Chairs

ACM TVX 2018, Workshop Co-Chairs

IEEE NOMS 2018, Local Arrangement Co-Chairs & Webmaster Co-Chairs

ACM Group 2018, Program Committee

Taichi 2018, Program Co-Chairs

Chinese CHI 2017, Publication Co-Chairs & Program Committee

Taichi 2017, Program Co-Chairs, & Program Committee

Taichi 2016, Poster Co-Chairs, & Program Committee

Chinese CHI 2014, Poster Co-Chairs

Journal & Conference Paper Reviewer

Journal: IWMUT, CSCW

Conference: Group 2018, CHI 2018, 2017, 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