Yung-Sheng Chang

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EDUCATION

Ph.D., School of Information   Aug. 2016 – Present

The University of Texas at Austin (UT Austin), Austin, TX, USA

Committee: Jacek Gwizdka (Chair), Ken Fleischmann, Yan Zhang, Annie Chen (University of Washington)

M.S., Industrial Engineering and Engineering Management   May 2013

National Tsing Hua University (NTHU), Hsinchu, Taiwan

Thesis: Evaluation on 3D Static Image and Dynamic Film Image Quality

B.S., Psychology   Jan. 2011

National Chung Cheng University, Chia-Yi, Taiwan

RESEARCH EXPERIENCE

Graduate Research Assistant,   Sept. 2016 – Present

School of Information, UT Austin

Consumer Longitudinal Health Information Needs and Search Behavior

– Develop a longitudinal study to investigate chronic health patients' information needs and seeking behaviors

Relevance Mining and Detection System

– Designed and conducted experiments on user relevance judgment of online news information to include eye-tracking, retrospective think-aloud, and NASA-TLX

Consumers' evaluation of the quality of online health information: A mixed method study

– Investigated users' quality judgment of online health information from government, commercial, and user-generated sources

Research Assistant,   Jan. 2015 – Jun. 2016

Department of Industrial Design, Chang Gung University

Development of a New Generation of Wearable Mechanocardiography (MCG) / Mechanoactiograph (MAG) / Electrocardiagraph (ECG) Realtime Sensing Technologies and New Style Mobile Detection / Warning Cloud Service Model for Acute Heart Diseases

– Conducted usability study on the design of smart clothing for heart disease patients to include scenario design, questionnaire, and interview as part of a nationally integrated research project

Usability Testing of Smartphone Surface Gesture on Different Ages of User and Smartphone Sizes

– Designed and tested the usability of smartphone surface gestures on different smartphone sizes among different age groups to include performance measurements

Research Assistant,   Feb. 2011 – Jan. 2013

Industrial Engineering and Engineering Management, NTHU

Ergonomic study on 3D Animation Film Design

- – Investigated the effect of various factors on subjective visual comfort and image quality in 3D animation film
- – Established a regression model to predict the optimal condition for improved 3D dynamic image quality

Application of Taguchi Experimental Design on Optimization 3D Display Systems

- – Designed a Taguchi Method experiment to investigate the effect of five variables on subjective visual comfort and image quality in 3D static image.
- – Proposed the optimal combination of independent variables for viewers to experience the least visual fatigue and best image quality

Research Assistant,   Sept. 2010 – Jan. 2011

Center for Research in Cognitive Science, National Chung Cheng University

- – Prepared experiment materials, designed experiment using E-prime, and analyzed data
- – Assisted conducting experiment with the use of eye tracking

PUBLICATIONS

Journal Publications (Peer Reviewed)

1. **Chang, Y-S.**, Zhang, Y., & Gwizdka, J. (2020). The effects of Information Source and eHealth Literacy on Consumer Health Information Credibility Evaluation Behavior. Manuscript accepted for publication in Computers in Human Behavior.

2. Tsai-Hsuan, T., **Chang, Y-S.**, Chang, H. T., & Lin, Y. W. (2020). Running on a social exercise platform: Applying self-determination theory to increase motivation to participate in a sporting event. Computers in Human Behavior, 106523. (Impact factor: 5.003; 2019)

3. Tsai, T. H., Lin, W. Y., **Chang, Y-S.**, Chang, P. C., & Lee, M. Y. (2020). Technology anxiety and resistance to change behavioral study of a wearable cardiac warming system using an extended TAM for older adults. PloS one, 15(1). (Impact factor: 2.776; 2018)

4. Tsai, T. H., Chang, H. T., Chen, Y. J., & **Chang, Y-S.** (2017). Determinants of user acceptance of a specific social platform for older adults: An empirical examination of user interface characteristics and behavioral intention. PloS one, 12(8), e0180102. (Impact factor: 2.766; 2017)

5. Tsai, T. H., Chang, H. T., Chang, Y. C., & **Chang, Y-S.** (2017). Personality disclosure on social network sites: An empirical examination of differences in Facebook usage behavior, profile contents and privacy settings. Computers in Human Behavior, 76, 469-482. (Impact factor: 3.536; 2017)

6. Tsai, T. H., Tseng, K. C., & **Chang, Y-S.** (2017). Testing the usability of smartphone surface gestures on different sizes of smartphones by different age groups of users. Computers in Human Behavior, 75, 103-116. (Impact factor: 3.536; 2017)

Conference Proceedings (Peer Reviewed)

7. **Chang, Y-S.**, Gwizdka, J., & Zhang, Y. (2020). eHealth Literacy, Information Sources, and Health Webpage Reading Patterns. Paper presented at the *Proceedings of the Association for Information Science and Technology*.

8. Gwizdka, J., **Chang, Y-S.** (2020). Search Results Viewing Behaviour vis-à-vis Relevance Criteria. In *Information Systems and Neuroscience* (pp. 181-188). Springer, Cham.

9. Tsai, T.S., Tseng, K., **Chang, Y-S.**, Lee, M.Y., Lin, W.Y., Lin, C.C., Chang, P.C. (2016). Technology Acceptance and Anxiety about the Use of Smart Clothes among Older Adults. *Kansei Engineering and Emotion Research Conference*, Leeds, United Kingdom, Aug. 31 – Sep. 2.

10. Lin, M.H., Chen, C.S., **Chang, Y-S.**, Hwang, S.L., Wang, P.C., Huang, H.T., & Wen, C.H. (2012). Application of Taguchi Method on 3D Display Quality. *International Conference on Applied Human Factors and Ergonomics*, San Francisco, California, USA, July 21-25.

11. Liu, C.L., **Chang, Y-S.**, Cheng, C.M., & Hwang, S.L. (2012). Facility Supply Systems Analysis of Abnormal Events - Take Small and Medium Solar Cell Manufactory for Example. *The 4th international Conference on Advanced Manufacturing*, Jiaosi, Yilan County, Taiwan, Mar. 4-8.

12. Wang, P.C., Lin, M.H., Huang, H.T., **Chang, Y-S.**, Wen, C.H., Wang, Y.L., Chen, C.S., & Hwang, S.L. (2012). The Major Factors of Viewing Comfort on Autostereoscopic Display by Taguchi Experiment Design. *SID Symposium Digest of Technical Papers*, 43(1), 1163-1165.

Conference Posters (Peer Reviewed)

13. **Chang, Y-S.**, Gwizdka, J. (2018). Relevance Criteria Dynamics: A Study of Online News Selection on SERPs. To appear in *Proceedings of the 81th Association for Information Science & Technology Annual Meeting-ASIS&T'2018.* (acceptance rate: 49%)

14. **Chang, Y-S.**, Lin, M.H., Lin, Y.T., Hwang, S.L., Yu, L. Y., & Wen, C.H. (2013). Effect of Different Objects and Moving Velocities on 3D Animation Image Quality. *The International Display Manufacturing Conference*, Taipei, Taiwan, Aug. 27-30.

15. Lin, M.H., Chen, C.S., **Chang, Y-S.**, Huang, H.T., Wang, P.C., Hwang, S.L., & Wen, C.H. (2012). Effects of The Best Versus The Worst Conditions on Visual Comfort for Viewing Autostereoscopic Displays. *The 4th International Conference on 3D Systems and Applications*, Hsinchu, Taiwan, June 25-27.

16. **Chang, Y-S.**, & Lee, Y.S. (2010). Fundamental Attribution Error in Conceptual and Perceptional Difficulties. *The 49th Annual Meeting of Taiwanese Psychological Association*, Chiayi, Taiwan, Nov. 6-7.

Workshop Paper Presentation

17. **Chang, Y-S.**, & Koltai, K. (2019). Online health communities and AI: Promise and concerns. Presented at CSCW2019: Good Systems: Ethical AI for CSCW. Austin, TX (November, 10th)

Doctoral Consortium

18. **Chang, Y-S.** (2020). Investigating the Relationship between eHealth Literacy and Information Search Behaviors. *To appear in the Proceedings of the 5th ACM SIGIR Conference on Human Information Interaction and Retrieval (CHIIR 2020)*, Vancouver, Canada, March 14-18. (acceptance rate: 67%)

19. **Chang, Y-S.** (2018). The Moderator Effect of Working Memory and Emotion on the Relationship between Information Overload and Online Health Information Quality Judgment. *To appear in the Proceedings of the*

3rd ACM SIGIR Conference on Human Information Interaction and Retrieval (CHIIR 2018), New Brunswick, New Jersey, USA, March 11-15. (acceptance rate: 61.1%)

Conference Student Poster Competition

20. Cha, Y., **Chang, Y-S.**, Gutierrez, A., Levin, H., Wilkinson, J., Xu, X., & Nordquist, E. (2018). Designing a Mobile App for Individuals Recovering from an Opioid Addiction. *The 2018 User Experience Professionals Association International Conference*, Peurto Rico, USA, Jun. 26-28. (Finalist)

AWARDS AND HONORS

CHIIR'20/SIGIR Student Travel Grants	2020 ($1,000)
University Graduate Continuing Fellowship	UT Austin, 2019 ($45,000)
Professional Development Award	UT Austin, 2018 ($500)
Graduate School Summer Fellowship	UT Austin, 2018 ($8,953)
Diversity & Inclusion Committee Conference Travel Award	School of Information, UT Austin, 2018 ($500)
CHIIR'18/SIGIR Student Travel Grants	2018 ($2,000)

TEACHING EXPERIENCE

Graduate Teaching Assistant,   Jan. 2018 – May 2019

School of Information, UT Austin

Courses include: INF 371C, Projects in Human Computer Interaction; INF 380E, Perspective on Information; INF 397C, Understanding Research; INF 385T, Special Topics in Information Science: Designing User Interfaces for Children

Guest Lecture,   Mar. 14th 2019

School of Information, UT Austin

Topic: Preparing For Usability Testing

Course for: Evaluation of Interactive Systems

Guest Lecture,   Nov. 28th 2018

School of Information, UT Austin

Topic: The Future of Children's Technology – Thinking Through the Lens of Information Literacy

Course for: Designing User Interfaces for Children

Teaching Assistant,   Feb. 2013 – June 2013

Industrial Engineering and Engineering Management, NTHU

Course include: General Psychology

WORK EXPERIENCE

User Research Intern,   Jun. 2019 – August 2019

VRBO, Austin, TX

- Deployed 4 first click surveys to have 400 users categorize 20 tasks in the top tier navigation menu.

- Conducted in-lab usability study to facilitate the redesign of website's information architecture by identifying 12 users' navigation pain points.

Substitute Military Service,   Oct. 2013 – Oct. 2014

Hsinchu Veterans Service Office

- Directed and edited a documentary film about veterans' service performed by officers
- Assisted with information collection and online system operation

SERVICE

Colloquium Committee	Sept. 2019 – Present
UT School of Information Search Committee: Associate Dean for Research	Sept. 2018 – May 2019
iSchool Doctoral Student Association, Student Representative	Sept. 2016 – Sept. 2018
Taiwanese Student Association, Officer Representative	May 2017 – May 2019