

Hao-Chuan Wang

Business Address:

Department of Computer Science, University of California, Davis
3025 Kemper Hall
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University of California
Davis, CA 95616
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EDUCATION

Ph.D., Information Science, Faculty of Computing and Information Science, Cornell University
(August 2008 – July 2011)
Advisors: Susan Fussell and Dan Cosley

Ph.D. student, Language Technologies Institute, School of Computer Science, Carnegie Mellon University
(August 2006 – May 2008. Transferred to Cornell University)

M.S., Computer Science, National Chengchi University
(Sept. 2002 – July 2004)
Advisors: Tsai-Yen Li and Chun-Yen Chang

B.S., National Taiwan Normal University
(Sept. 1995 – June 1999)

RESEARCH INTERESTS

Human-computer interaction (HCI), computer supported cooperative work and social computing (CSCW), human-AI interactions (HAI)
Diversity, inclusion and fairness in computing
Applied behavioral, cognitive and social sciences in computing
Applied language technologies, machine learning, and statistics
Online education, learning technologies

PROFESSIONAL EXPERIENCE (Full-Time or Part-Time Employments, Not including service roles)

Associate Professor (Tenured) (July, 2020–)
Department of Computer Science,
University of California, Davis, USA

Visiting Associate Professor (June-Sep, 2021)
College of Computer Science,
National Yang Ming Chiao Tung University, Hsinchu, Taiwan

Acting Associate Professor (March, 2018– June 2020)
Department of Computer Science,
University of California, Davis, USA

UC Visiting Professor (June-August, 2019)
UC/UCEAP Osaka Office, Osaka University, Japan

Associate Professor (Tenured) (August, 2017 –February, 2018)
Department of Computer Science &
Institute of Information Systems and Applications,
National Tsing Hua University, Hsinchu, Taiwan

Assistant Professor (February, 2012—July 2017, 5.5 years)
Department of Computer Science &
Institute of Information Systems and Applications,
National Tsing Hua University, Hsinchu, Taiwan

Adjunct Principal Investigator (January, 2016 –2018)
Intel-NTU Connected Context Computing Center (NTU IoX Center),
National Taiwan University, Taipei, Taiwan

Division Director (August, 2014 –July 2017, 3 years)
Learning Technology Division, Computer and Communication Center,
National Tsing Hua University, Hsinchu, Taiwan

Adjunct Faculty (Spring 2015 –)
Taiwan International Graduate Program on Social Networks and Human-Centered Computing,
Academia Sinica, Taipei, Taiwan

Postdoctoral Associate (August, 2011 – December, 2011)
Department of Information Science, Cornell University, Ithaca NY

Assistantships for full-time PhD study at Cornell University:

Graduate Research Assistant (January, 2011 – August, 2011)
Department of Communication, Cornell University, Ithaca NY

Teaching Assistant (Course: INFO 3450 Human-Computer Interaction Design, Instructor: Dr. Daniel Cosley)
(August 2010 – December 2010)
Department of Information Science, Cornell University, Ithaca NY

Graduate Research Assistant (January, 2010 – May, 2010)
Department of Computer Science, Cornell University, Ithaca NY

Graduate Research Assistant (January, 2009 – December, 2009)
Department of Communication, Cornell University, Ithaca NY

Teaching Assistant (Course: PSYCH/COGST/INFO 2140/6140 Cognitive Psychology, Instructor: Dr. Shimon Edelman) (August 2008 – December 2008)
Department of Psychology, Cornell University, Ithaca NY

Assistantships for full-time PhD study at Carnegie Mellon University:

Graduate Research Assistant (January 2008 – May 2008)
Human-Computer Interaction Institute, Carnegie Mellon University, Pittsburgh PA

Graduate Research Assistant (September 2006 – May 2007)
Language Technologies Institute, Carnegie Mellon University, Pittsburgh PA

Visiting Researcher (June-July, 2010)
Institute of Information Science, Academia Sinica, Taipei, Taiwan

Visiting Researcher (April 2006 – June 2006)
Language Technologies Institute, Carnegie Mellon University, Pittsburgh PA

Research Assistant (October 2005 – March 2006)
Science Education Center, National Taiwan Normal University, Taipei, Taiwan

Research Assistant (April 2004 – September 2005)
Institute of Information Science, Academia Sinica, Taipei, Taiwan

PROFESSIONAL LEADERSHIP ROLES AND SERVICES

ACM SIGCHI VP Finance (Nov 2023 - Now)

ACM SIGCHI VP-at-Large (Feb 2023 - Dec 2023)

Associate Editor, Journal of Information Science and Engineering (JISE, published by Academia Sinica, Taiwan)
(2022- now)

Paper Co-Chair ACM CSCW 2022 (July 2021 – Jan 2023)

General Co-Chair, ACM SIGCHI CSCW 2022 (Apr 2019 – Jul 2021)

Co-Organizer, ACM CSCW Summer/Winter School, 2019-2020

Steering Committee, ACM SIGCHI CSCW Community, 2015-2018

Subcommittee Chair (SC), ACM Conference on Human Factors in Computing Systems (CHI) 2017, 2018

Associate Chair (AC), ACM Conference on Human Factors in Computing Systems (CHI) 2014, 2015, 2016, 2019, 2020; ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW) 2013, 2015, 2018, 2020

Panelist, Doctoral Consortium, ACM CSCW 2020

Translation (Language Support) Co-Chair, ACM Conference on Human Factors in Computing Systems (CHI) 2017, 2019, 2021

Panelist/Grant Reviewer, NSF (USA), MOST (Taiwan), NSERC (Canada), ERC (EU), 2018-Now

Program Co-Chair, International Symposium of Chinese CHI, 2014, 2015, 2017

Board Member (elected), International Chinese Association of Computer-Human Interaction (ICACHI), 2014-

Steering Committee Member, International Symposium of Chinese CHI (2016—2017)

Publicity Co-Chair, ACM Group 2016.

Demonstrations Co-Chair, ACM CSCW, 2014.

Program Committee Associate Chair, ACM Conference on Collaboration Across Boundaries (CABS), 2014.

Technical Program Committee, International Conference on Collaboration Technologies and Systems (CTS), 2014.
<http://cts2014.cis.edu.info/3-committees/tpc>

Local Organization Committee, The 12th International Symposium on Smart Graphics 2014.
<http://www.smartgraphics.org/sg14/#committee>

Audio/Video Co-Chair, ACM CSCW, 2013.

http://cscw.acm.org/2013/committee_pc.html
<http://cscw.acm.org/2013/committee.html>

International Program Committee, Asia Pacific Conference on Computer-Human Interface (APCHI), 2013
<http://apchi2013.org/>

Publicity Co-Chair & Session Chair, The First International Symposium of Chinese CHI, 2013
<http://chchi2013.icachi.org/page/committee>

Program Committee, International Conference on Computers in Education (ICCE), 2012, 2013
<http://www.lsl.nie.edu.sg/icce2012/call-for-papers/c2-icce-conference-on-computer-supported-collaborative-learning-cscl-and-learning-sciences/>

Program Committee, Global Chinese Conference on Computers in Education (GCCCE), 2012, 2013
<http://www.gccce2012.org/C1.html>

Program Committee, 2013 Conference on Technologies and Applications of Artificial Intelligence (TAAI), 2013.
<http://taai2013.nccu.edu.tw>

Program Committee, International Conference on Service Science and Innovation (ICSSI), 2013
<http://icssi2013.s3tw.org/programcommittee.html>

Program Committee, International Workshop on Multimodality in Multiparty Interaction (MuMI), 2013.
<http://research.nii.ac.jp/~bono/en/event/MiMI2013.html>

Domestic

Grant Reviewer, Ministry of Science and Technology, Taiwan, 2016-2018

Paper Co-Chair, Taiwan Human-Computer Interaction Conference (TAICHI), 2018

Program Co-Chair, Taiwan Human-Computer Interaction Conference (TAICHI), 2016, 2017

Executive Director (elected), Taiwan Association for Computer-Human Interaction (ACM SIGCHI Taipei Chapter), 2016-2018

Founding Member, Taiwan Association for Computer-Human Interaction (ACM SIGCHI Taipei Chapter), 2016

Program Committee and Panelist, The first Taiwan CSCL & AIED Workshop

<http://sites.google.com/site/csclaied2012/ca>

Program Committee, Computer Graphics Workshop, 2012, 2013

<http://cgv.cs.nthu.edu.tw/cgw2013/>

Program Committee, NCS 2011 Workshop on Artificial Intelligence, Fuzzy Systems and U-Learning, National Computer Symposium 2011, Chiayi, Taiwan.

Institutional

Graduate Admission Chair, Graduate Group of Computer Science, University of California, Davis, 2020- 2023

Co-Chair, Junior Specialist Search Committee, Department of Computer Science, University of California, Davis, 2018

Graduate Admission Committee, Department of Computer Science & Institute of Information System and Applications, National Tsing Hua University. 2014-2017

PhD Admission Committee, Department of Information Science, Cornell University, 2010.

Paper Reviewing (not updated since 2016. not including Associate Chairs and Senior Committee roles)

Conference Reviewer for *ACM CHI* (2009-2016), *ACM CSCW* (2010-2016), *ACM ICIC* (2009-2011), *ACM UbiComp* (2009-2011, 2013-2014), *ACM DocEng* (2005, 2006, 2008, 2009), *ACM IUI* (2006, 2007), *Cognitive Science* (2008, 2009), *CSCL* (2007, 2009), *AIED* (2007), *ICLS* (2008, 2010), *APSCE ICCE* (2009,2012), *IEEE/WIC/ACM Web Intelligence* (2007), *IEEE CIS-RAM* (2008).

Journal Reviewer for *Human-Computer Interaction (Taylor & Francis)* (2012, 2014), *ACM Transactions on Computer-Human Interaction* (2013-), *Journal of Information Science and Engineering* (2012-), *Journal of the Chinese Institute of Engineering* (2012), *User Modeling and User-Adapted Interaction (Springer)*(2011), *IEEE Transactions on Education* (2004—2007), *Computers & Education (Elsevier)* (2008—), *Journal of Virtual Reality (Springer)*(2006), *Research and Practice in Technology-Enhanced Learning (World Scientific)* (2013).

PUBLICATIONS

Conference Regular Papers and Journal Papers

*top-tier publication (see Google Scholar Ranking of Computer Science Publication Venues, including both conferences and journals: https://scholar.google.com/citations?view_op=top_venues&hl=en&vq=eng_humancomputerinteraction)

†journal

- *†Kai-Hui Liang, Weiyan Shi, Yoo Jung Oh, Hao-Chuan Wang, Jingwen Zhang, Zhou Yu. (2024, accepted for publication). Dialoging Resonance in Human-Chatbot Conversation: How Users Perceive and Reciprocate Recommendation Chatbot's Self-Disclosure Strategy. Proceedings of the ACM: Human-Computer Interaction (PACM HCI), Vol. CSCW.
- *Qingxiaoyang Zhu, Austin Chau, Michelle Cohn, Kai-Hui Liang, Hao-Chuan Wang, Georgia Zellou and Zhou Yu. (2022). Effects of Emotional Expressiveness on Voice Chatbot Interactions. to appear at 4th ACM In-Cooperation Conference on Conversational User Interfaces (CUI) 2022.
- *Fu-Yin Cherng, Jingchao Fang, Yin hao Jiang, Xin Chen, Taejun Choi, Hao-Chuan Wang. (2022). Understanding Social Influence in Collective Product Ratings Using Behavioral and Cognitive Metrics. Proceedings of ACM Conference on Human Factors in Computing Systems (CHI) 2022.
- *†Chelsea Kim, Hao-Chuan Wang. (2022). From Receivers to Givers: Understanding Practice of Reciprocity in an Online Support Community. Proceedings of the ACM: Human-Computer Interaction (PACM HCI), Vol CSCW.
- *†Jingchao Fang, Yanhao Wang, Chi-Lan Yang, Ching Liu, Hao-Chuan Wang. (2022). Understanding the Effects of Structured Note-taking Systems for Video-based Learners in Individual and Social Learning Contexts. Proceedings of the ACM: Human-Computer Interaction (PACM HCI).
- *†Chi-Lan Yang, Naomi Yamashita, Hideaki Kuzuoka, Hao-Chuan Wang, Eureka Foong. (2022). Distance Matters to Weak Ties: Exploring How Workers Perceive Their Strongly- and Weakly-Connected Collaborators in Remote Workplaces. Proceedings of the ACM: Human-Computer Interaction (PACM HCI).
- *Chuang-Wen You, Chien Wen (Tina) Yuan, Nanyi Bi, Min-Wei Huang, Po-Chun Huang, Hao-Chuan Wang. (2021). Go Gig or Go Home: Enabling Social Sensing to Share Personal Data with Intimate Partner for the Health and

- Wellbeing of Long-Hour workers. regular paper to appear in Proceedings of ACM Conference on Human Factors in Computing Systems (CHI) 2021.
- *Hsin-Ruey Tsai, Yuan-Chia Chang, Tzu-Yun Wei, Chih-An Tsao, Xander Chin-yuan Koo, Hao-Chuan Wang, Bing-Yu Chen. (2021). GuideBand: Intuitive 3D Multilevel Force Guidance on a Wristband in Virtual Reality. regular paper to appear in Proceedings of ACM Conference on Human Factors in Computing Systems (CHI) 2021
- *Chien-Lin Tang, Jingxian Liao, Hao-Chuan Wang, Ching-Ying Sung, Wen-Chieh Lin (2021). ConceptGuide: Supporting Online Video Learning with Concept Map-based Recommendation of Learning Path. Proceedings of the Web Conference 2021 (WWW'21). [acceptance rate – 375/1736=21%] **[Best Student Paper Award]**
- *Lazaro, E., Wang, H-C., Vega, K. (2020). Introducing the Sustainable Prototyping Life Cycle for Digital Fabrication to Designers. Proceedings of ACM DIS 2020.
- *†Jingxian Liao and Hao-Chuan Wang: Gestures as Intrinsic Creativity Support: Understanding the Usage and Function of Hand Gestures in Computer-Mediated Group Brainstorming. Proceedings of the ACM: Human Computer Interaction (PACM HCI) (oral presentation appeared in Group 2020).
- *†Chi-Lan Yang, Chien-Wen Yuan, Hao-Chuan Wang: When Knowledge Network is Social Network: Understanding Collaborative Knowledge Transfer in Workplace. Proceedings of the ACM: Human Computer Interaction (PACM HCI) (CSCW 2019).
- Meng-Yun Liao, Ching-Ying Sung, Hao-Chuan Wang, Wen-Chieh Lin: Virtual Classmates: Embodying Historical Learners' Messages as Learning Companions in a VR Classroom through Comment Mapping. Proceedings of the 26th IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR), 2019.
- *†Chi-Lan Yang, Chien Wen (Tina) Yuan, Tzu-Yang Wang, and Hao-Chuan Wang. 2018. Knowing That You Know What I Know Helps?: Understanding the Effects of Knowledge Transparency in Online Knowledge Transfer. Proc. ACM Hum.-Comput. Interact. 2, CSCW, Article 189 (November 2018). **[Honorable Mention Paper Award]**
- *†Mei-Ling Chen, Naomi Yamashita, and Hao-Chuan Wang. 2018. Beyond Lingua Franca: System-Facilitated Language Switching Diversifies Participation in Multiparty Multilingual Communication. Proc. ACM Hum.-Comput. Interact. 2, CSCW, Article 34 (November 2018).
- *†Chuang-Wen You, Ya-Fang Lin, Yaliang Chuang, Ya-Han Lee, Pei-Yi Hsu, Shih-Yao Lin, Chih-Chun Chang, Yi-Ju Chung, Yi-Ling Chen, Ming-Chyi Huang, Ping-Hsuan Shen, Hsin-Tung Tseng, and Hao-Chuan Wang. 2018. SoberMotion: Leveraging the Force of Probation Officers to Reduce the Risk of DUI Recidivism. Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 2, 3, Article 146 (September 2018). **[Distinguished Paper Award]**
- *Tu, P-Y., Yuan, C-W., Wang, H-C. (2018). Do you think what I think: Perceptions of delayed instant messages in computer-mediated communication of romantic relations. *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI) 2018*.
- *Liu, C., Kim, J., Wang, H-C. (2018). ConceptScape: Collaborative concept mapping for video learning. *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI) 2018*. **[Honorable Mention Paper, top 5% of all submissions to CHI]**
- †Yang, P-J., Wang, H-C., Liu, Y-H. (2018). Click-Search: Supporting Information search with crowd-powered image-to-keyword query formulation. *Journal of Visual Languages and Computing*, 46, 12-19.
- Ho, T-Y., Wang, H-C., Lai, S-H. (2018). Non-native language reading support with display of machine translation based on eye-tracking and sentence-level mapping. *Proceedings of the Fifth International Symposium of Chinese CHI (Chinese CHI) 2018*, ACM Press.
- †Sung, C-Y., Huang, X-Y., Shen, Y., Cherng, F-Y., Lin, W-C., Wang, H-C., (2017). Exploring online learners' interactive dynamics by visually analyzing their time-anchored comments. *Computer Graphics Forum*, 36(7), 145-155.
- *Chang, Y-C., Wang, H-C., Chu, H-K., Lin, S-Y., Wang, S-P. (2017). AlphaRead: Support unambiguous referencing in remote collaboration with readable object annotation. *Proceedings of ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW) 2017*.
- *Pan, M-H., Yamashita, N., Wang, H-C. (2017). Task Rebalancing: Improving multilingual communication with native speakers-generated highlights on automated transcripts. *Proceedings of ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW) 2017*.
- Huang, Y-C., Huang, J-C., Wang, H-C., Hsu, Y-J. (2017). Supporting ESL writing by prompting crowdsourced structural feedback. *Proceedings of the Fifth AAAI Conference on Human Computation and Crowdsourcing 2017*.

- Sung, C-Y., Wang, H-C., Huang, C-W., Lin, W-C. (2017). Questionaization of peer-generated comments for supporting online video-based learning. *Proceedings of the Fourth International Symposium of Chinese CHI (Chinese CHI) 2017*, ACM Press.
- Yang, C-L. Liu, C., Wang, H-C. (2017). Understanding task transfer in workplace: Interaction among human, artifact, and context. *Proceedings of the Fourth International Symposium of Chinese CHI (Chinese CHI) 2017*, ACM Press.
- Wang, S-P., Chen, M-L., Wang, H-C., Lai, C-T., Huang, A-J. (2017). De-identified feature-based visualization of facial expression for enhanced text chat. *Proceedings of the 43rd Graphics Interface Conference, 2017*, 199-207.
- Lin, Y-F., Li, C-Y., Kalinicheva, Y., Huang, M-C., Lee, C-H., Wang, H-C., Chu, H-H. (2017). Case study of adapting a phone-based support system to enable drug-dependent patients to develop coping skills. *Proceedings of ACM Conference on Human Factors in Computing Systems - Case Study (oral presentation published in extended abstract format)*.
- *You, C-W., Lin, Y-F., Li, C-Y., Tsai, Y-L., Huang, M-C., Lee, C-H., Wang, H-C., Chum H-H. (2016). Using mobile phones to assist patients in recovering from drug addiction. *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI) 2016* [Acceptance rate: 23%]
- *Lee, Y-C., Lin, W-C., Cherng, F-Y., Wang, H-C., Sung, C-Y., King, J-T. (2015). Using Time-Anchored Peer Comments to Enhance Social Interaction in Online Educational Videos. *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI) 2015* [Acceptance rate: 495/2150 ~ 23%]
- *You, C- W., Wang, K-C., Huang, M-C., Chen, Y-C., Lin, C-L., Ho, P-S., Wang, H-C., Huang, P., Chu, H-H. (2015). SoberDiary: A Phone-based Support System for Assisting Recovery from Alcohol Dependence. *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI) 2015* [Acceptance rate: 495/2150 ~ 23%] **[Honorable Mention Paper Award, Top 5% of all submissions to CHI]**
- Wang, H-C., Yeo, T-H., Nobarany, S., Hsieh, G. (2015). Problem with Cross-Cultural Comparison of User-Generated Ratings on Mechanical Turk. *Proceedings of the Third International Symposium of Chinese CHI (Chinese CHI) 2015*, ACM Press. [Acceptance rate: 8/21= 38%]
- *Wang, H-C., & Lai, C-T. (2014). Kinect-taped communication: Using motion sensing to study gesture use and similarity in face-to-face and computer-mediated brainstorming. *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI) 2014*. [Acceptance rate: 470/2064=22.8%]
- *Huang, A-J., Wang, H-C., Yuan, C-W. (2014). De-virtualizing social events: Understanding the gap between online and offline participation for event invitations. *Proceedings of ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW) 2014*. [Acceptance rate: 135/500 ~ 27%]
- Wang, H-C., Yeo, T-Y., Lee, H-H., Huang, A-J., Chang, S-C., Tu, J-J. (2014). Effects of interface interactivity on collecting language data to power dialogue agents. *Proceedings of the Second International Symposium of Chinese CHI 2014*, ACM Press. [Acceptance rate: 17/55=30.9%]
- Hsieh, L-C., Hsu, W., Wang, H-C. (2014). Investigating and Predicting Social and Visual Image Interestingness on Social Media by Crowdsourcing. *Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2014*.
- *Gao, G., Wang, H-C., Cosley, D., & Fussell, S. R. (2013). Same translation but different experience: the effects of highlighting on machine-translated conversations. *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI) 2013*. [Acceptance rate: 392/1963=23%]
- *Wang, H-C., Fussell, S. R., & Cosley, D. (2013). Machine translation vs. common language: Effects on idea exchange in cross-lingual groups. *Proceedings of ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW) 2013*. [Acceptance rate: 139/390=36%]
- †Wang, H-C., Rosé, C. P., Chang, C-Y. (2011). Agent-based dynamic support for learning from collaborative brainstorming in scientific inquiry. *International Journal of Computer Supported Collaborative Learning (ijCSSL)*. <http://www.springerlink.com/content/j1k1j774q8357365/>
- *Wang, H-C., Fussell, S. R., & Cosley, D. (2011). From diversity to creativity: Stimulating group brainstorming with cultural differences and conversationally-retrieved pictures. *Proceedings of ACM CSCW 2011*. [Acceptance rate: 58/268 ~ 21.6%]
- Pessapati, S. T., Wang, H-C., & Cosley, D. (2010). Intercultural human-photo encounters: How cultural similarity affects perceiving and tagging photographs. *Proceedings of ACM International Conference on Intercultural Collaboration (ICIC 2010)*. (short paper)

- *Wang, H-C., & Fussell, S. R. (2010). Groups in groups: Conversational similarity in online multicultural multiparty brainstorming. *Proceedings of ACM CSCW 2010*. [Acceptance rate: 58/288 ~ 20.1%]
- *Wang, H-C., Cosley, D., & Fussell, S. R. (2010). Idea expander: Supporting group brainstorming with conversationally triggered visual thinking stimuli. *Proceedings of ACM CSCW 2010*. (note) [Acceptance rate: 58/288 ~ 20.1%]
- *Wang, H-C., Fussell, S. R., & Setlock, L. D. (2009). Cultural difference and adaptation of communication styles in computer-mediated group brainstorming. *Proceedings of ACM CHI 2009*. [Acceptance rate: 277/1130 ~ 24.5%]
[**Honorable Mention Paper, top 5% of all submissions to CHI**]
- Wang, H-C. (2008). Modeling idea generation sequences using Hidden Markov Models. *Proceedings of the 30th Annual Meeting of the Cognitive Science Society (CogSci 2008)* (pp. 107-112). Austin, TX: Cognitive Science Society. [Acceptance rate for oral presentation papers: 166/515 ~ 32.3%]
- †Wang, H-C., Chang, C-Y., & Li, T-Y. (2008). Assessing creative problem solving with automated text grading. *Computers & Education*, 51, 1450-1466.
- †Chang, C-Y., & Wang, H-C. (2008). Issues of inquiry learning in digital learning environments. *British Journal of Educational Technologies*, 40, 169-173.
- Wang, H-C., & Rosé, C.P. (2007). A process analysis of idea generation and failure. *Proceedings of the 29th Annual Meeting of the Cognitive Science Society (CogSci 2007)* (pp. 1629-1634). Austin, TX: Cognitive Science Society.
- Wang, H-C., Rosé, C.P., Cue, Y., Chang, C-Y. Huang, C-C., & Li, T-Y. (2007). Thinking hard together: The long and short of collaborative idea generation in scientific inquiry. *Proceedings of Computer Supported Collaborative Learning 2007 (CSCL 2007)*. [Acceptance rate: 30%] (nominated to Best Student Paper Award)
- Wang, H-C., Rosé, C.P. (2007). Supporting collaborative idea generation: A closer look using statistical process analysis techniques. *Proceedings of 13th International Conference on Artificial Intelligence in Education (AIED 2007)*. (short paper)
- *Wang, H-C., Kumar, R., Rosé, C.P., Li, T-Y., & Chang, C-Y. (2007). A hybrid ontology directed feedback selection algorithm for supporting creative problem solving dialogues. *Proceedings of 20th International Joint Conference on Artificial Intelligence (IJCAI 2007)*. [Acceptance rate: 470/1353 ~ 35%]
- Huang, C-C., Li, T-Y., Wang, H-C., & Chang, C-Y. (2007). A collaborative support tool for creativity learning: Idea Storming Cube. *Proceedings of the 7th IEEE International Conference on Advanced Learning Technologies (ICALT 2007)*, NY: IEEE Computer Society.
- †Wang, H-C., Chang, C-Y., & Li, T-Y. (2007). The comparative efficacy of 2D- versus 3D-based media design for influencing spatial visualization skills. *Computers in Human Behavior*, 23, 1943-1957.
- Wang, H-C., Li, T-Y., Rosé, C. P., Huang, C-C., & Chang, C-Y. (2006). VIBRANT: A brainstorming agent for computer supported creative problem solving. *Proceedings of 8th International Conference on Intelligent Tutoring Systems (ITS 2006)*, *Lecture Notes of Computer Science*, Springer. (short paper) (Best Poster Award)
- †Wang, H-C., Li, T-Y., & Chang, C-Y. (2006). A web-based tutoring system with styles-matching strategy for spatial geometric transformation. *Interacting with Computers*, 18, 331-355.
- Wang, H-C., Chang, C-Y., & Li, T-Y (2005). Automated scoring for creative problem-solving ability with ideation-explanation modeling. *Proceedings of 13th International Conference on Computers in Education (ICCE 2005)*, *Frontiers in Artificial Intelligence and Applications*, 133, pp. 522-529, The Netherlands: IOS Press.
- Wang, H-C., Li, T-Y., & Chang, C-Y. (2005). A user modeling framework for exploring creative problem-solving ability. *Proceedings of 12th International Conference on Artificial Intelligence in Education (AIED 2005)*, *Frontiers in Artificial Intelligence and Applications*, 125, 941-943, The Netherlands: IOS Press. (short paper)
- Wang, H-C., Lu, C-H., Yang, J-Y., Hu, H-W., Chiou, G-F., Chiang, Y-T., & Hsu, W-L. (2005). An empirical exploration of using Wiki in an English as a second language course. *Proceedings of 5th IEEE International Conference on Advanced Learning Technologies (ICALT 2005)*, 155-157, NY: IEEE Computer Society. (short paper)
- Chang, Y-H., Chuang, T-R., & Wang, H-C. (2004). Adaptive level-of-detail in SVG. *Proceedings of the 3rd Annual Conference on Scalable Vector Graphics (SVG Open 2004)*, Keio University, Tokyo, Japan.
- Wang, H-C., Li, T-Y., & Chang, C-Y.(2004). Adaptive presentation for effective web-based learning of 3D content. *Proceedings of 4th IEEE International Conference on Advanced Learning Technologies (ICALT 2004)*, 136-140, NY: IEEE Computer Society.

Conference Late Breaking Work, Demos, Workshop Papers, Posters

- Liang, J. W., & Wang, H. C. (2023, August). Reshaping Group Life: A Transparent and Interpretable Reward Model to Enhance Fairness in Groups. In *International Conference on Collaboration Technologies* (pp. 209-216). Cham: Springer Nature Switzerland.
- Zhu, Q., Lee, Y. C., & Wang, H. C. (2023, August). Support How-To Instruction Following via Conversational Agent. In *International Conference on Collaboration Technologies* (pp. 217-225). Cham: Springer Nature Switzerland
- Liao, J., Singh, M., & Wang, H. C. (2023, October). DeepThinkingMap: Collaborative Video Reflection System with Graph-based Summarizing and Commenting. In *Companion Publication of the 2023 Conference on Computer Supported Cooperative Work and Social Computing* (pp. 369-371).
- Liao, J., Singh, M., Hung, Y. T., Lin, W. C., & Wang, H. C. (2023, October). ConceptCombo: Assisting Online Video Access with Concept Mapping and Social Commenting Visualizations. In *Companion Publication of the 2023 Conference on Computer Supported Cooperative Work and Social Computing* (pp. 362-364)
- Zhu, Q., Zhang, X., Dai, S., Satake, N., & Wang, H. C. (2023, July). ZoomBaTogether: a video conference add-on for generating interactive visual feedback for online group exercise through On-The-Fly pose tracking. In *Companion Publication of the 2023 ACM Designing Interactive Systems Conference* (pp. 261-265).
- Liao, J., & Wang, H. C. (2022, April). Nudge for Reflective Mind: Understanding How Accessing Peer Concept Mapping and Commenting Affects Reflection of High-stakes Information. In *CHI Conference on Human Factors in Computing Systems Extended Abstracts* (pp. 1-7)
- †Jingchao Fang, Yanhao Wang, Chi-Lan Yang, Hao-Chuan Wang. (2021). NoteCoStruct: Powering Online Learners with Socially Scaffolded Note Taking and Sharing. to appear in *Late Breaking Work in the ACM Conference on Human Factors in Computing Systems (CHI LBW) 2021*.
- †Shuyi Sun, Neha Deshmukh, Xin Chen, Hao-Chuan Wang and Katia Vega. (2021). GemiN' I: Seamless Skin Interfaces Aiding Communication through Unconscious Behaviors. Demo of the *Augmented Humans International Conference 2021*. **[Best Demo Award]**
- Chi-Lan Yang and Hao-Chuan Wang. 2019. Understanding How Social Prompts Influence Expert's Sharing of How-to Knowledge. in *Proceedings of ACM Conference on Computer-Supported Cooperative Work and Social Computing, Companion (CSCW Companion)*
- Chien Wen (Tina) Yuan, Yu-Hsuan Liu, Hao-Chuan Wang, and Yuan-Chi Tseng. 2019. Gender Effects on Collaborative Online Brainstorming Teamwork. In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems (CHI EA '19)*
- Ching (Jean) Liu, Chi-Lan Yang, Joseph Jay Williams, and Hao-Chuan Wang. 2019. NoteStruct: Scaffolding Note-taking while Learning from Online Videos. In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems (CHI EA '19)*.
- Mei-Ling Chen, Naomi Yamashita, Hao-Chuan Wang: Come Together: Facilitating Collocated Multilingual Group Discussion with a Language Support Tool. *Proceedings of ACM Conference on Human Factors in Computing Systems, Extended Abstracts (CHI EA)*, 2018.
- Yang, C-L., & Wang, H-C. (2018). Can You Help Me without Knowing Much? Exploring Cued-Knowledge Sharing for Instructors' Tutorial Generation. *Proceedings of the 23rd International Conference on Intelligent User Interfaces Companion*, ACM Press.
- Yong, S., & Wang, H-C. (2018). Using Spatialized Audio to Improve Human Spatial Knowledge Acquisition in Virtual Reality. *Proceedings of the 23rd International Conference on Intelligent User Interfaces Companion*, ACM Press.
- Chen, M-L., & Wang, H-C. (2018). How Personal Experience and Technical Knowledge Affect Using Conversational Agents. *Proceedings of the 23rd International Conference on Intelligent User Interfaces Companion*, ACM Press.
- Hsu, P-Y., Lin, Y-F., Huang, J-L., Chang, C-C., Lin, S-Y., Lee, Y-H., You, C-W., Chuang, Y., Huang, M-C., Tseng, H-T., Wang, H-C. (2017). A mobile support system to assist DUI offenders on probation in reducing DUI relapse. *Adjunct Proceedings of the 2017 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2017 Poster)*.
- Hsu, P-Y., Lee, Y-H., You, C-W., Chuang, Y., Huang, M-C., Wang, H-C. (2017). Learning how clinicians use self-logged behavior data when managing patients with alcohol use problems in a clinical setting. *Adjunct Proceedings of the 2017 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2017 Poster)*.
- Tu, P-Y., Chen, M-L., Yang, C-L., Wang, H-C. (2016). Co-Viewing Room: Mobile TV Content Sharing in Social Chat. *Proceedings of ACM Conference on Human Factors in Computing Systems, Extended Abstracts (CHI'16 EA)*.

- Lin, K-Y., Yong, S., Wang, S-P., Lai, C-T., & Wang, H-C. (2016). HandVis: Visualized Gesture Support for Remote Cross-Lingual Communication. *Proceedings of ACM Conference on Human Factors in Computing Systems, Extended Abstracts (CHI'16 EA)*.
- Sung, C-Y., Huang, X-Y., Shen, Y., Cherng, F-Y., Lin, W-C., Wang, H-C. (2016). ToPIN: A Visual Analysis Tool for Time-anchored Comments in Online Educational Videos. *Proceedings of ACM Conference on Human Factors in Computing Systems, Extended Abstracts, (CHI'16 EA)*.
- Wang, H-C., Hsieh, G., Bi, X., Duh, H. B. L., & Chen, Y. (2015). Chinese CHI Symposium in CHI 2015. *Proceedings of ACM CHI '15 Extended Abstracts on Human Factors in Computing Systems (CHI'15 EA)*.
- Tsai, H-L., Han, C-H., Wu, E-S., Yang, C-L., & Wang, H-C. (2015). Tag & Link: Supporting Regional and Relational Tagging in Images with Direct Annotation. *Proceedings of ACM CHI '15 Extended Abstracts on Human Factors in Computing Systems (CHI'15 EA)*.
- Tsai, H-L., & Wang, H-C. (2015). Evaluating the Effects of Interface Feedback in MT-embedded Interactive Translation. *Proceedings of ACM CHI '15 Extended Abstracts on Human Factors in Computing Systems (CHI'15 EA)*.
- Hsiao, C-Y., Pan, M-H., Wang, H-C., & Hsu, Y-J. (2015). The Price of the Priceless: Understanding Estimated Costs of Work in Friendsourcing. *Proceedings of ACM CHI '15 Extended Abstracts on Human Factors in Computing Systems (CHI'15 EA)*.
- Han, C-H., Yang, C-L., Wang, H-C. (2014). Supporting second language reading with picture note-taking. Work-in-Progress in *ACM CHI 2014*.
- Wang, S-P., Lai, C-T., Huang, A-J., Wang, H-C. (2014). KinChat: Veiling your face without suppressing facial expression in text communication. Work-in-Progress in *ACM CHI 2014*.
- Pan, M-H., & Wang, H-C. (2014). Enhancing machine translations with crowdsourced keyword highlighting. *5th ACM international conference on Collaboration across boundaries: culture, distance & technology (CABS'14)*.
- Chen, Y-T., Han, C-H, Jeng, H-W., & Wang, H-C. (2014). Crowdsourcing 3D motion reconstruction. *Smart Graphics 2014*.
- Wang, H-C. & Lai, C-T. (2013). Understanding and Supporting Computer-Mediated Gesture Use with Active Communication Channels. Presentation at *Chinese CHI 2013* (<http://chchi2013.icachi.org>).
- Wang, H-C., Fussell, S. R., & Cosley, D. (2011). Using language-retrieved pictures to support multi-lingual brainstorming. Demonstration in *ACM CSCW 2011*.
- Wang, H-C. (2010-2011). Using language-retrieved pictures to support intercultural group brainstorming. Doctoral Consortiums in *ACM Group 2010, CSCW 2011, & CHI 2011*.
- Wang, H-C., Fussell, S. R., & Cosley, D. (2010). Effects of visual stimuli on idea generation and discourse coherence in conversational brainstorming, *Annual Meeting of the Society for Text & Discourse*. (poster).
- Wang, H-C., Cosley, D., & Fussell, S. R. (2010). Idea expander: agent-augmented online brainstorming. Demonstration in *ACM CSCW 2010*.
- Wang, H-C., & Fussell, S. R. (2009). Cultural adaptation of conversational style in intercultural computer-mediated group brainstorming. *ACM International Workshop on Intercultural Collaboration (IWIC 2009)*.
- Chou, T-Y., Wang, H-C., Yeh, T-K., & Chang, C-Y. (2009). Measuring students' implicit attitudes toward environmental protection. *Annual Conference of the National Association for Research in Science Teaching (NARST 2009)*.
- Wang, H-C., Fussell, S. R., & Setlock, L. D. (2008). Effects of cultural background and communication medium on group brainstorming conversations. *Annual Meeting of the Society for Text & Discourse*. (poster)
- Huang, C-C., Li, T-Y., Wang, H-C., & Chang, C-Y. (2007). Idea Storming Cube: a game-based system to support creative thinking. *The First IEEE International Workshop on Digital Game and Intelligent Toy Enhanced Learning (DIGTEL 2007)*, Jungli, Taiwan. (nominated to Best Poster Award)
- Wang, H-C., Rosé, C.P., Li, T-Y., & Chang, C-Y. (2006). Providing support for creative group brainstorming: taxonomy and technologies. *Workshop on Intelligent Tutoring Systems for Ill-Defined Domains, the 8th International Conference on Intelligent Tutoring Systems (ITS 2006)*.
- Lu, C-H., Wang, H-C., Yang, J-Y., Hu, H-W., Chiou, G-F., Chiang, Y-T., & Hsu, W-L. (2005). On using Wiki in an English as a second language course: An empirical study. *International Conference on Computer Supported Collaborative Learning (CSCL 2005)*, Taipei, Taiwan (poster)

Wang, H-C., Li, T-Y., & Chang, C-Y., “Analyzing empirical evaluation of advanced learning environments: complex systems and confounding factors,” Learning Technology Newsletter, Vol. 6, pp. 39-41, IEEE Technical Committee on Learning Technology, 2004.

Wang, H-C., Li, T-Y., “Considering model-based adaptivity for learning objects,” Learning Technology Newsletter, Vol. 6, pp. 9-11, 2004.

UNPUBLISHED THESES

Wang, H-C. (2011). Using Language-Retrieved Pictures to Support Computer-Mediated Intercultural Brainstorming. Ph.D. Dissertation. Department of Information Science, Cornell University, Ithaca, NY, USA.

Wang, H-C. (2004). A web-based tutoring system with intelligent media: spatial geometric transformation as an example. Master's Thesis. Department of Computer Science, National Chengchi University, Taipei, Taiwan.

Wang, H-C. (1999). Estimating parameters of galactic rotation from Hipparcos proper motions. Bachelor's Thesis. Department of Earth Sciences, National Taiwan Normal University, Taipei, Taiwan.

INVITED TALKS

Wang, H-C. (2018). *Bridging Communication Gaps with Social Computing Interaction Designs of Communication Channels*. Department of Communication, University of California, Davis, May 3, 2018; EECS Seminar, University of California, Merced, September 28, 2018; Informatics Seminar, University of California, Irvine, November, 2018.

Wang, H-C. (2017). Bridging the Communication Gap: Conceptualizing Issues of Learnability in Using Intelligent Personal Assistants. Microsoft Research Asia Academic Day, I-Lan, Taiwan. May 26, 2017.

Wang, H-C. (2017). *Bridging Communication Gaps with Social Computing Interaction Designs of Communication Channels*. Department of Computer Science, University of California, Davis, March 2, 2017; HCI Seminar, Korean Advanced Institute of Science and Technology, April 5, 2017; Institute of Service Science, National Tsing Hua University, April 12, 2017

Wang, H-C. (2016). *Interaction Beyond the Individual: An Introduction to HCI-Oriented Social Computing Research and Design*. Department of Industrial Design, National Cheng Kung University, June 16, 2016.

Wang, H-C. (2016). *Using Non-Verbal Information to Augment Designs of Language-based Interactions*. Facebook HQ, March 3, 2016.

Wang, H-C. (2016). *Social Computing: Augmentation Beyond Individuals*. Intel-NTU Connected Context Computing Center, Jan 14, 2016.

Wang, H-C. (2015). *Using Non-Verbal Information to Augment Designs of Language-based Interactions*. Information Retrieval Workshop, Institute of Information Science, Academia Sinica, Dec 18, 2015.

Wang, H-C. (2014). *Using Kinect to Study the Role of Hand Gestures During Conversations*. Microsoft Research Asia, October 31, 2014.

Wang, H-C. (2014). *Active Computer-Mediated Communication: Research at the NTHU Collaborative and Social Computing Lab*. Human-Computer Interaction Institute, Carnegie Mellon University, Aug 5, 2014.

Wang, H-C. (2014-2015). *On Grounding Human Communication with Human-Computer Interaction Designs*. Research Center for Information Technology Innovation, Academia Sinica, Feb 13, 2014
http://www.citi.sinica.edu.tw/HTML/seminars/IZ140005_en.html; Graduate Institute of Network Learning Technology, National Central University, May 22, 2014; Department of Communication and Technology, National Chiao Tung University, May 26, 2014; Department of Information Management, National Sun Yat-Sen University, Nov 13, 2014; Department of Computer Science, National Chiao Tung University, Nov 25, 2014; Department of Information Management, National Taiwan University, Dec 19, 2014; Digital Content and Technology Program, National Chengchi University, Mar 24, 2015. Department of Computer Science, National Chengchi University, Apr 13, 2015.

Wang, H-C. (2013). *On Re-positioning HCI*. Closing keynote address at OpenHCI workshop 2013, National Taiwan University of Science and Technology, July 5, 2013. <http://www.openhci.com>

Wang, H-C. (2012-2013). *Interaction Beyond the Individual: A Lecture on HCI-Oriented Collaborative and Social Computing*. Institute of Information Science, Academia Sinica, July 17, 2012; Department of Computer Science and Information Engineering, National Taiwan University, October 12, 2012; Department of Computer Science, National Tsing Hua University, November 14, 2012; Department of Computer Science, National Chiao Tung University, March 6, 2013; Department of Computer Science, National Chengchi University, May 6, 2013; National Hsinchu University of Education, May 9, 2013; Department of Architecture, Tunghai University, May 24, 2013; Bilateral Tsinghua University Workshop at Xiamen University, Oct 8, 2013; EITA-EITC conference

- at National Taiwan University, Nov 24, 2013; Institute of Communication, National Chiao Tung University, Dec 26, 2013.
- Wang, H.-C. (2012). *Using Language-based Interaction as the Basis for Collaborative Learning: What Technologies Can Do for Us?* Invited panel presentation, The first Taiwan CSCL & AIED Workshop, April 13, 2012. (sponsored by National Science Council, Science Education Division)
- Wang, H.-C. (2012). *Computer-Augmented Human-Human Collaboration*. Institute of Information Systems and Applications, National Tsing Hua University, March 28, 2012.
- Wang, H.-C. (2012). *Active Computer-Mediated Communication: A Social Computing Approach to Support Online Group Work*. Department of Communication & Technology, National Chiao-Tung University, March 7, 2012.
- Wang, H.-C. (2011-2012). *Active Computer-Mediated Communication: Designing Activity-Aware Communication Channels for Supporting Online Groups*. Department of Computer Science, National Tsing Hua University, March 29, 2011; Department of Computer Science and Information Engineering, National Taiwan University, March 25, 2011; Institute of Information Science, Academia Sinica, March 31, 2011; College of Computer Science, National Chiao-Tung University, May 17, 2012.
- Wang, H.-C. (2010). *Idea Expander: Supporting brainstorming with conversationally triggered visual stimuli*. Ishida & Matsubara Lab, Department of Social Informatics, Kyoto University, Kyoto, Japan, June 21, 2010.
- Wang, H.-C. (2010). *Understanding and designing for group brainstorming: The socio-cognitive approach to collective intelligence*. Institute of Information Science, Academia Sinica, June 11, 2010; Network Learning Institute, National Central University, July 7, 2010.
- Wang, H.-C. (2010). *On Human-Computer Interaction*. Science Education Center, National Taiwan Normal University, July 5, 2010.
- Wang, H.-C. (2010). *Groups in groups: conversational similarity in online multicultural multiparty brainstorming*. Information Science Breakfast Series, Cornell University, January 29, 2010; Communication Colloquium Series, February 2, 2010.
- Wang, H.-C. (2010). *Idea expander: supporting group brainstorming with conversationally triggered visual thinking stimuli*. Information Science Breakfast Series, Cornell University, January 29, 2010.
- Wang, H.-C. (2009). *Toward Understanding and Unleashing Cultural Diversity in Computer-Mediated Intercultural Group Brainstorming*. Information Science Breakfast Series, Cornell University, February 13, 2009.
- Wang, H.-C. (2009). *Doing Behavioral and Cognitive Sciences for HCI Design: My Recent Work on Computer-Mediated Group Creativity*. Department of Computer Science & College of Communication, National Chengchi University, January 12, 2009; Also at the Department of Computer Science and Information Engineering, National Taiwan University, January 14, 2009.
- Wang, H.-C. (2007). *Practical Automated Scoring for e-Learning*. Science Education Center, National Taiwan Normal University, May 22, 2007.
- Wang, H.-C., & Rosé, C. P. (2006). *Thinking Hard Together: the Long and Short of Collaborative Idea Generation*. Pittsburgh Science of Learning Center Seminar Series, Carnegie Mellon University, November 27, 2006.

SELECTED HONORS AND AWARDS

- Best Student Paper Award, International World Wide Web Conference, 2021 (Advisor of the student-as-first-author team)
- Distinguished Paper Award, Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (PACM IMWUT), 2018
- ACM CSCW Honorable Mention Paper, *ACM Conference on Computer Supported Cooperative Work and Social Computing*, 2018
- Outstanding Chinese Young Leader in HCI, *International Chinese Association of Computer-Human Interaction (ICACHI)*, 2018
- ACM CHI Honorable Mention Paper (Top 5% paper in CHI), *ACM Conference on Human Factors in Computing Systems*, 2018
- ACM CHI Honorable Mention Paper (Top 5% paper in CHI), *ACM Conference on Human Factors in Computing Systems*, 2015
- ACM CHI Honorable Mention Paper (Top 5% paper in CHI), *ACM Conference on Human Factors in Computing Systems*, 2009
- Outstanding Young Investigator Research Project, *Ministry of Science and Technology, Taiwan*, 2016
- Teaching Excellence Award, *College of Electrical Engineering and Computer Science, National Tsing Hua University*, 2016

Google Faculty Research Award, *Google Inc.*, 2014 <http://googleresearch.blogspot.tw/2014/02/google-research-awards-winter-2014.html> http://research.google.com/university/relations/research_awards.html
Invited Speaker, Microsoft Research Asia Faculty Summit, *Microsoft Research Asia*, 2014 <http://research.microsoft.com/en-us/events/asiafacsum2014/>
University Teaching Award Nominee, *National Tsing Hua University*, 2014
Travel Grant, Doctoral Consortium, *ACM Conference on Human Factors in Computing Systems*, 2011
Travel Grant, Doctoral Colloquium, *ACM Conference on Computer Supported Cooperative Work*, 2011
Travel Grant, Doctoral Colloquium, *ACM International Conference on Supporting Group Work*, 2010
Science 50 Achievement, *National Science Council, Taiwan*, 2008
Nominee for Best Student Paper Award, *International Conference on Computer Supported Collaborative Learning (CSCL)*, 2007
Nominee for Best Poster Award, *IEEE International Conference on Digital Game and Intelligent Toy Enhanced Learning (DIGITEL)*, 2007
Best Poster Award, *International Conference on Intelligent Tutoring Systems (ITS)*, 2006
Graduate Academic Outstanding Award, *College of Science, National Chengchi University*, 2004, 2003
Graduate Research Outstanding Award, *College of Science, National Chengchi University*, 2004
NSC Undergraduate Research Grant, *National Science Council, Taiwan R.O.C. (Project Number NSC88-2815-C-003-45M, Area: Physics)*, 1998

SELECTED RESEARCH GRANTS

University of California Office of the President (UCOP)

Enhancing Online Group Fitness Exercise for Health Improvement for Patients with Cancers (PI, 2022-2023)

University of California, Center for Information Technology Research in the Interest of Society and the Banatao Institute (CITRIS)

Activity monitoring to improve caregiver connection and care for older adults living alone with Alzheimer's disease (Co-PI, 2023)

Looxid Labs, California, USA

Looxid Labs-UC Davis Interaction Analytics Initiative Fund (May 2019 -)

Ministry of Science and Technology (National Science Council), Taiwan

Designing and Evaluating Multimodal Community Interface and Visual Aid for Online Self-Learning of Skills (PI, Aug 2016 – Jul 2018)

Supporting Conversation Across Language Boundaries with Human-Centered Computing Design. (PI, Aug 2013 - Jul 2016)

Developing Multimodal Human-Computer Interaction Technologies and Designs for Smart TV (Co-PI, Sep 2014 - Aug 2017)

Smart Living - Smart Bike as the Platform of Wearable Applications (Co-PI, Sep 2014 - Aug 2017)

Developing and Evaluating Concept Expansion Methods for Supporting Creative Idea Generation Tasks. (PI, Aug 2012 - July 2013)

NTU IoX Center

Supporting Grounding in Distributed Communication with Attention Monitoring and Management (PI, Jan 2016 –)

Google

Supporting Machine Translation-Mediated Communication with Pictorial Information (Google Faculty Research Award, 2014)

Microsoft Research Asia

Using Kinect-based Motion Sensing to Understand and Support Second Language Tutoring (PI, Sep 2014 - Aug 2015)

Using Motion Sensing to Understand and Support Gesture in Computer-Mediate Communication (PI, Jan 2013 - Dec 2013)

Delta Electronics Corp.

Using Personalized Micro Learning Tasks to Support Active Learning in Classrooms (PI, Mar 2013 - Feb 2014)

Industrial Technology Research Institute (ITRI)

Crowdsourcing Language Generation Tasks for Interactive Dialogue Systems (PI, Dec 2012 - Mar 2013)

STUDENTS AND ADVISEES

PhD advisee/mentee

Jinxian Liao (UC Davis, 2018- now), Jingchao Fang (UC Davis, 2019-now), Qingxiaoyang Zhu (UC Davis, 2020-now), Jia-Wei Liang (UC Davis, 2022-now), Meredith Young-Ng (UC Davis, 2023-now).

Chelsea Kim (Mentee at Graduate Program of Communication, UC Davis, graduated with PhD), Shuo-Ping Wang (NTHU, 2015-2017, on leave), Ya-Fang Lin (NTHU, 2015-2017), Chi-Lan Yang (NTHU, 2016-2018), Mei-Ling Chen (NTHU, 2016-2018), Ching Su (NTHU, 2017-2018, on leave), Ching-Ying Sung (National Chiao Tung University, 2015 -2017), Yi-Ching Huang (Mentee at National Taiwan University, 2015-2018 graduated with PhD) (total: 13 PhD students: 4 graduated with M.S.; 2 graduated with PhD; 5 active PhD students)

Master advisee

Ting-Chun Claire Chen (UC Davis, 2023-), Yi-Qing Elliot Lin (UC Davis, 2024 -)Angela Rodolico (UC Davis, 2020-2022), Ikechi Iwuagwu (UC Davis, 2020-), Yin hao Jiang (UC Davis, 2018-2020), Aakaash Kapoor (UC Davis, 2019-2020), Shubhanker Gupta (UC Davis, 2019-2020), Chien-Tung Lai (NTHU, 2012-2014), Ai-Ju Huang (NTHU, 2012-2014), Hsing-Lin Tsai (NTHU, 2012-2015), Tau-Heng Yeo (NTHU, 2012-2015), Shuo-Ping Wang (NTHU, 2013-2015), Han-Ting Chiang (NTHU, 2013-2015), Ping-Jing Yang (NTHU, 2013-2015), Po-Han Shih (NTHU, 2013-2016), Cheng-Hsien Han (NTHU, 2014-2016), Mei-Hua Pan (NTHU, 2014-2016), Chen-Wei Huang (NTHU, 2014-2017), Yuan-Chia Chang (NTHU, 2014-2017), Pei-Yun Tina Tu (NTHU, 2015-2017), Kuan-Yu Lin (NTHU, 2015-2017), Pornlada Ittipornpithak (NTHU, 2015-2017), Yu-Hsuan Liu (NTHU, 2016-2018), Ko-Ren Chang (NTHU, 2016-), I-Heng Jerry Chan (NTHU, 2016-2018), Pei-Yi Hsu (NTHU, 2016-2018), Po-Han Lee (NTHU, 2016-), Rosiana Natalie (NTHU, 2016-) (total: 24 master students)

OTHER WORK EXPERIENCE

Compulsory Military Service (rank: second lieutenant) (July 2000 – March 2002)
ARMY, Taiwan (R.O.C.)

Practice Science Teacher (July 1999 – June 2000)
Taipei Municipal Jen-Ai Junior High School, Taipei, Taiwan

Summer Intern (July – August, 1998)
Institute of Astronomy, National Central University, Jhongli, Taiwan

PROFESSIONAL SOCIETIES AND ASSOCIATIONS

Association for Computing Machinery (ACM), SIGCHI

CITIZENSHIP

Taiwan

Permanent Resident of the United States of America