

PEI-YUN TU

Master Student in Computer Science
Human-computer Interaction

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I am currently a master student of Computer Science at National Tsing Hua University under the supervision of Professor Hao-Chuan Wang. I got to know more about User Experience (UX) in my junior year and played an active part in activities (e.g., courses, contests, talks, workshops, conferences). Now, I engage in Human-Computer Interaction (HCI) research with a focus on social interaction such as Computer-Mediated Communication (CMC) and conversation support.

WORK EXPERIENCE

VISITING RESEARCH SCHOLAR, 2017-2017

College of Information Science and Technology, Pennsylvania State University
Lab: Computer Supported Collaboration and Learning, Professor John M. Carroll
Research: Location-based Microvolunteering Platform

TEACHING ASSISTANT, 2016-2017

Institute of Information Systems and Applications, National Tsing Hua University
Course: Applied Quantitative Methods for Human-Computer Interaction

ADJUNCT RESEARCH ASSISTANT, 2016-2017

Industrial Design, National Cheng Kung University
Lab: Cognition, Experience and Behavior Design, Professor Yuan-Chi Tseng
Research: The Effect of Peer-to-Peer Message on Pro-Environmental Behavior

TEACHING ASSISTANT, 2016-2016

Institute of Information Systems and Applications, National Tsing Hua University
Course: Social Computing

WEBSITE ADMINISTRATOR, 2012-2015

The Arts Center of National Tsing Hua University

RESEARCH ASSISTANT, 2014

Institute of Learning Sciences and Technologies, National Tsing Hua University
Lab: Human-Computer Interaction, Professor Yu-chen Hsu
Research: The Effects of Similarity between Players and Avatars on Avatars' Behaviors

EDUCATION

MASTER OF COMPUTER SCIENCE, 2015-2017

Department of Computer Science, National Tsing Hua University, Hsinchu, Taiwan, 2017
Lab: Collaborative and Social Computing
Research: Human-Computer Interaction (HCI) - Computer-Mediated Communication (CMC)
Thesis: Perceptions of Delayed Instant Messages in Computer-Mediated Communication of Romantic Relations
Adviser: Professor Hao-Chuan Wang, Professor Chien-Wen Yuan
Cumulative GPA: 4.1/4.3

INTERDISCIPLINARY PROGRAM, 2012-2015

Innovative Design Program
Global Supply Chain and Logistics Management Program
Program of Information and Communication Media

BACHELOR OF COMPUTER SCIENCE, 2011-2015

Department of Computer Science, National Tsing Hua University, Hsinchu, Taiwan, 2015
Research: The Design and Implementation of Embodied Interactive Mobile Painting System
Adviser: Associate Researcher Ruen-Rone Lee
Cumulative GPA: 3.92/4.3

SKILLS**RESEARCH AND DESIGN METHODS**

Research Questions Identification, Study Design (Lab/Field Study Design), Preparation (Interviews/Diary/Questionnaires Design, Scale Development, Prototyping), Study (Interviews, Questionnaires/Scales, Experiments, Diary Studies, Observation, Usability Testing), Analysis (Quantitative/Qualitative Analysis), Findings Report

PROGRAMMING LANGUAGES

HTML, CSS, JavaScript, SQL, PHP, C, C++, C#, JAVA, MATLAB, Python

SOFTWARE AND APPLICATIONS

Axure, ATLAS.ti, NVivo, SPSS, AMOS, JMP, Photoshop, SketchUp, Premiere, Unity

LANGUAGES

Mandarin Chinese (native), English (intermediate), Taiwanese (intermediate)

RESEARCH INTERESTS**HUMAN-COMPUTER INTERACTION (HCI)**

Computer-Mediated Communication (CMC), Conversation Support

USER EXPERIENCE

WORKS**PERCEPTIONS OF DELAYED INSTANT MESSAGES IN COMPUTER-MEDIATED COMMUNICATION OF ROMANTIC RELATIONS, 2017**

Drawing on Expectancy Violation Theory, this work examines how romantic partners grow, perceive, and use shared information and understanding about each other in delayed messaging to resolve the violation.

THE EFFECT OF PEER-TO-PEER MESSAGE ON PRO-ENVIRONMENTAL BEHAVIOR, 2017

A field study, based on the theory of planned behavior, examines how peer-to-peer messages of self pro-environmental behavior shape social norms and how the effect changes over time after the intervention is removed.

CO-VIEWING ROOM: MOBILE TV CONTENT SHARING IN SOCIAL CHAT, 2016

A mobile TV content sharing system which enables distributed users to share three types of TV content, including whole video sharing, video clips sharing and snapshots sharing during an online chat. To uncover how three different methods affect the experience and interactions between co-viewers of the chat, we simulate the remote TV co-watching scenario in a lab study.

GUAVAMAP, 2015

A mobile platform design that provides medical resources and mental support for young patients and their family who are suffering from physiological or psychological harm and long-term treatment. We explored their needs through interviews and ran usability testing after prototyping.

PAINTING IN THE AIR, 2015

A embodied interactive mobile painting system that enables children to add their voice and action as materials into the painting and enjoy drawing together by waving the mobile in the air. After development, we invited target users to use the system and did an observation to learn how they interact with it.

PUBLICATIONS

Pei-Yun Tu, Chien Wen Yuan, Hao-Chuan Wang: Do You Think What I Think: Shared Perceptions of Delayed Instant Messages between Romantic Couples. TAIwan Computer-Human Interaction Workshop, Poster (TAICHI Poster) 2017.

Jo-Tung Li, Pei-Yun Tu, Yuan-Chi Tseng: Peer Influence? The Effect of Peer-to-Peer Message on Pro-Environmental Behavior. TAIwan Computer-Human Interaction Workshop, Poster (TAICHI Poster) 2017.

Pei-Yun Tu, Mei-Ling Chen, Chi-Lan Yang, Hao-Chuan Wang: Co-Viewing Room: Mobile TV Content Sharing in Social Chat. Proceedings of ACM Conference on Human Factors in Computing Systems, Late-Breaking Work (CHI LBW) 2016.

Pei-Yun Tu, Mao-Yao Tien, Ren-Chen Xiao, Yi-Hsuan Chen, Kuan-Yu Lin, Ruen-Rone Lee: The Design and Implementation of Embodied Interactive Mobile Painting System. TAIwan Computer-Human Interaction Workshop (TAICHI) 2015.

HONORS

Outstanding Award of 1st Trans Action Award, Industrial Development Bureau, Ministry of Economic Affairs (IDB/MOEA)

Honorable Mention of Creative Design Contest 2015, College of Engineering, National Tsing Hua University

First Prize of Computer Science Senior Project Contest 2014, Department of Computer Science, National Tsing Hua University

Best Students Award of Mobileheroes Contest 2014 - The User Experience Design of Smart Wearable Devices, Industrial Development Bureau, Ministry of Economic Affairs (IDB/MOEA)

First Place of International ICT Innovation Services Contest 2014, Industrial Development Bureau, Ministry of Economic Affairs (IDB/MOEA), Ministry of Education (MOE), Chinese Society of Information Management (CSIM)

Golden Prize of 4C Digital Design Awards 2014, Industrial Development Bureau, Ministry of Economic Affairs (IDB/MOEA)

Company Recommendation Award-Best Work of 4C Digital Design Awards 2014, Industrial Development Bureau, Ministry of Economic Affairs (IDB/MOEA)

Most Potential of 4C Digital Design Awards 2014, Industrial Development Bureau, Ministry of Economic Affairs (IDB/MOEA)