

Yu-Chun (Grace) Yen

1012 W. Clark St. Apt 23, Urbana, IL 61801

Tel: (217) 979-6380 • email: y Yen4@illinois.edu • website: <http://grace-yen.com>

EDUCATION

PhD Candidate in Computer Science

Aug 2013- present

University of Illinois at Urbana-Champaign (UIUC), Urbana, Illinois

Human-Computer Interaction Group, Advisor: Dr. Brian P. Bailey

G.P.A. 3.9/4.0

M.S. in Computer Science

Aug 2009 - June 2011

National Taiwan University (NTU), Taipei, Taiwan

Intelligent Robot and Automation Lab, Advisor: Dr. Li-Chen Fu

GPA: 4.0/4.0

B.E. in Computer Science

Aug 2005 - June 2009

National Taiwan Normal University (NTNU), Taipei, Taiwan

GPA: 3.91/4.0 (Ranked in top 1%)

RESEARCH EXPERIENCE

Doctoral Research Assistant, University of Illinois, Champaign, IL

Aug 2013 - present

Human-Computer Interaction Group - ORCHID Lab, Advisor: Dr. Brian P. Bailey

- Implemented crowd feedback platform to help designers iterate designs with online crowds
- Conducted field experiments measuring the effect of crowd incentives on feedback generation
- Recruited and interviewed 27 professional designers about their experience of receiving crowd feedback to inform the designing space for crowd feedback services
- Deployed crowd feedback platform in a UI design course to help 130 students iterate on their term project
- Analyzed data using statistical tests and qualitative coding to distill strategies for crowd feedback selection
- Developed lightweight reflection intervention to facilitate feedback interpretation

Research Assistant, Taiwan National Science Foundation Projects, Taipei, Taiwan

Feb 2012 - May 2013

Vision and Image Processing Lab, NTNU. Supervisor: Dr. Greg Lee

- Implemented a collaborative learning tool for beginner-level programming classes
- Designed innovative features in the learning tool (e.g. cloze tests and learning trajectory)
- Deployed the learning tool in four programming classes to increase collaborative learning experience

Graduate Research Assistant, National Taiwan University, Taipei, Taiwan

Aug 2009 - Nov 2011

Intelligent Robot and Automation Lab, Advisor: Dr. Li-Chen Fu

- Implemented a smart ward in a real hospital to precisely and continuously generate evidence-based activity report of elderly patients for their caregivers
- Conducted field observation and interviews with medical experts and elderly patients to identify practical guidelines for healthcare system
- Developed a context-aware monitoring system using sensing technology and machine learning technique to infer bed-related activities for the elder and their surroundings

SKILLS AND RELEVANT COURSEWORK

Data analysis tools: SPSS, JMP, R, Tableau, Weka

Relevant coursework: Human-Computer Interaction, User Interface Design, Data-driven Design, Cognitive Engineering, Machine Learning, Data Mining, Artificial Intelligence, Statistics, Mobile Phone Programming

Programming languages: Java, JavaScript, PHP, MySQL, HTML, CSS, Python, C++

PUBLICATIONS

- [1] **Yu-Chun (Grace) Yen**, Steven P. Dow, Elizabeth Gerber, and Brian P. Bailey. Listen to Others, Listen to Yourself: Combining Feedback Review and Reflection to Improve Iterative Design. ACM Conference on Creativity and Cognition (C&C 2017)
- [2] Helen Wauck, **Yu-Chun (Grace) Yen**, Wai-Tat Fu, Elizabeth Gerber, Steven P. Dow, and Brian P. Bailey. From in the Class or in the Wild? Peers Provide Better Design Feedback Than External Crowds. In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2017).
- [3] **Yu-Chun (Grace) Yen**, Steven P. Dow, Elizabeth Gerber, and Brian P. Bailey. Social Network, Web Forum, or Task Market? Comparing Different Crowd Genres for Design Feedback Exchange. In Proceedings of the ACM Conference on Designing Interactive Systems (DIS 2016).
- [4] Chun-Feng Liao, **Yu-Chun (Grace) Yen**, Yu-Chiao Huang, and Li-Chen Fu. An Empirical Study on Engineering a Real-World Smart Ward Using Pervasive Technologies. In IEEE Systems Journal. Vol. PP, No.99, pp.1-10, 2016.
- [5] Yu-Chiao Huang, Chun-Feng Liao, **Yu-Chun Yen**, Li-Jen Hou, Li-Chen Fu, Chia-Hui Chen, Chiung-Nien Chen. An Extensible Situation-Aware Caring System for Real-World Smart Wards. In Proceeding of the International Conference on Smart Homes and Health Telematics (ICOST 2012).
- [6] **Yu-Chun Yen**, Jiun-Yi Li, Ching-Hu Lu, Tsung-Han Yang and Li-Chen Fu. Human-Centric Situational Awareness in the Bedroom. In Proceeding of the International Conference on Smart Homes and Health Telematics (ICOST 2011).
- [7] **Yu-Chun Yen**, Ching-Hu Lu, Yi-Chung Cheng, Jing-Siang Chen, and Li-Chen Fu. Towards an Evidence-Based and Context-Aware Elderly Caring System Using Persuasive Engagement. In Proceeding of the International Conference on Human-Computer Interaction (HCI 2011).

THESIS

Yu-Chun Yen. Master Thesis. Human-centric and Situation-aware Pervasive Healthcare System in the Hospital for Elderly People. National Taiwan University, Taiwan, June 2011. (*Best Master Thesis Award*)

PATENT

Yu-Chun Yen, Li-Chen Fu, Tsung-Han Yang, Fang-Cheng Liu, Chun-Feng Liao. An information processing system based on multi-layer inference architecture. Patent ID: I486914 (Taiwan). Valid from June 2015 to May 2032.

TEACHING EXPERIENCE

Teaching Assistant, Human-Computer Interaction, at University of Illinois **2015, 2017 Spring**

Graduate-level class leading discussion on the topic of crowdsourcing and mentoring research-oriented term projects with six groups per semester.

Teaching Assistant, User Interface Design, at University of Illinois **2014 Fall**

Taught the principles of user interface design and mentored term projects on the topic of mobile and Web interface design

Practice Teacher, Introduction to Web Design, at SSCV High School, Taipei, Taiwan **2009**

Trained high school students to build their personal website using Dreamweaver

HONORS and AWARDS

Muroga Endowed Fellowship, University of Illinois at Urbana-Champaign **Nov 2013**

TAAI Best Master Thesis Award, Taiwanese Association for Artificial Intelligence, Taiwan **Nov 2011**

Undergraduate Research Grant, National Science Council, Taiwan **Feb 2009 - July 2009**

Merit-based Excellent Undergraduate Scholarship, NTNU **Sep 2005 - June 2009**

Full tuition scholarship awarded to student GPA ranked in top 1%, Taipei, Taiwan