

# Yu-Chun (Grace) Yen

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## 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 platforms helping designers iterate designs with online crowds
- Compared feedback generated from social networks (e.g. Facebook, Twitter), online communities (e.g. Reddit), and online task markets (e.g. Amazon Mechanical Turk, oDesk)
- Performed field experiment measured the effect of crowd incentives on the process of feedback exchange
- Conducted user study with 27 professional designers, 90 armature designers, and 127 students
- Analyzed data using statistical tests and qualitative coding to distill important evidence
- 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 platform for beginner-level programming classes
- Designed and developed an interface for creating teaching materials for programming (e.g. cloze tests)
- Distributed the learning tools in two secondary schools and one college in Taiwan

### Graduate Research Assistant, National Taiwan University, Taipei, Taiwan

*Aug 2009 - Nov 2011*

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

- Implemented and deployed a real-world smart ward in NTU Hospital to precisely and continuously generate daily activity report of elderly patient for their caregivers
- Researched practical guidelines for a computer-supported healthcare system through field observation and interviews with medical experts and elderly patients
- Developed a context-aware monitoring system using multi-modal and un-obtrusive sensors to infer bed-related activities for the elder and their surroundings
- The work was sponsored by Intel-NTU grant

## 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, HTML, CSS, Python, C++

## PUBLICATIONS

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- [1] **Yu-Chun (Grace) Yen**, Steven P. Dow, Elizabeth Gerber, and Brian P. Bailey. Testing the Effect of Reflection Activity on Feedback Interpretation. [In Submission]
- [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

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|---|--------------------------|
| <b>Teaching Assistant, <i>Human-Computer Interaction</i></b> , at University of Illinois<br>Graduate-level class leading discussion on the topic of crowdsourcing and mentoring research-oriented term projects with six groups per semester. | <b>2015, 2017 Spring</b> |
| <b>Teaching Assistant, <i>User Interface Design</i></b> , at University of Illinois<br>Taught the principles of user interface design and mentored term projects on the topic of mobile and Web interface design                              | <b>2014 Fall</b>         |
| <b>Practice Teacher, <i>Introduction to Web Design</i></b> , at SSCV High School, Taipei, Taiwan<br>Trained high school students to build their personal website using Dreamweaver  | <b>2009</b>              |

## HONORS and AWARDS

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| <b>Muroga Endowed Fellowship</b> , <i>University of Illinois at Urbana-Champaign</i>   | <b>Nov 2013</b>             |
| <b>TAAI Best Master Thesis Award</b> , <i>Taiwanese Association for Artificial Intelligence, Taiwan</i>  | <b>Nov 2011</b>             |
| <b>Undergraduate Research Grant</b> , <i>National Science Council, Taiwan</i>  | <b>Feb 2009 - July 2009</b> |
| <b>Merit-based Excellent Undergraduate Scholarship</b> , <i>NTNU</i><br>Full tuition scholarship awarded to student GPA ranked in top 1%, Taipei, Taiwan | <b>Sep 2005 - June 2009</b> |