

# Yu-Chun (Grace) Yen

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## EDUCATION

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### PhD Candidate in Computer Science

*Aug 2013- present*

University of Illinois at Urbana-Champaign, 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, Taipei, Taiwan  
Intelligent Robot and Automation Lab  
Thesis Advisor: Dr. Li-Chen Fu  
GPA: 4.0/4.0

### B.E. of Computer Science

*Aug 2005 - June 2009*

National Taiwan Normal University, Taipei, Taiwan  
GPA: 3.91/4.0 (Ranked in top 1%)

## RESEARCH EXPERIENCE

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### Doctoral Research Assistant, University of Illinois, Champaign, IL

*Aug 2013 - present*

ORCHID Group, Advisor: Dr. Brian P. Bailey

- Designed and developed two crowd feedback systems aiding 27 professional designers, 90 everyday designers, and 127 students to iterate their designs with online crowds.
- Field experiment measured the effect of crowd incentives on the process of feedback exchange.
- Performed quantitative and qualitative data analysis on responses received from social networks, online communities, and online task markets to provide practical guidelines for crowd feedback selection.
- Field experiment compared feedback generated from online crowds and peers in a UI design class.
- Conducted user study using five-condition between-subjects experiment with 90 everyday designers.
- Developed light-weight activity intervention to facilitate feedback interpretation. [In submission]
- Analyzed data using statistical tests and qualitative coding to provide evidence of impact on user experience.

### Research Assistant, VIPLab in National Taiwan Normal University, Taipei, Taiwan

*Feb 2012 - May 2013*

Taiwan National Science Foundation Projects, Supervisor: Dr. Greg Lee

- Designed and developed a collaborative learning platform for beginner-level programming classes.
- Designed and implemented social support features such as in-class discussion board and seek-for-help functionalities to enhance collaborative learning experience.
- Designed and developed an effective interface for users to create sharable cloze tests on code segments.
- Deployed the platform 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

- Designed and implemented a bed-related situation monitoring system using multi-modal and unobtrusive ambient sensors to infer activities of interests for the users and their surroundings.
- Composed the practical guidelines for a computer-supported healthcare system through field observation and interviews with elderly patients in NTU hospital.
- Designed and implemented a smart ward in NTU Hospital to precisely and continuously monitor patients' daily activities for over six months. [received *Best Master Thesis Award*]

### Undergraduate Research Assistant, National Taiwan Normal University, Taiwan

*Aug 2008- May 2009*

Computer Vision and Image Understanding Lab, Advisor: Dr. Chiung-Yao Feng

- Applied temporal template mapping and finite state machines to detect targeted gymnastics movements from sequential images. [Received *Undergraduate Research Grant*]

## PUBLICATIONS

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- WIP **Yu-Chun (Grace) Yen**, Steven P. Dow, Elizabeth Gerber, and Brian P. Bailey. Testing the Effect of Reflection Activity on Feedback Interpretation. [In Submission]
- C.5 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).
- C.4 **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).
- J.1 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.
- C.3 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).
- C.2 **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).
- C.1 **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>CS 565 Human-Computer Interaction</b> , Teaching Assistant, at University of Illinois   | <i>2015, 2017 Spring</i> |
| Discussion-based graduate level class discussing on the topic of crowdsourcing and design. |                          |
| <b>CS 465 User Interface Design</b> , Teaching Assistant, at University of Illinois        | <i>2014 Fall</i>         |
| Project-based graduate level class teaching the principles of user interface design.       |                          |
| <b>Introduction to Web Design</b> , Practice Teacher, at SSCV High School, Taipei, Taiwan  | <i>2009</i>              |
| Lecture-based high school class on the topic of Web design using Dreamweaver.              |                          |

## HONORS and AWARDS

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| <b>Muroga Endowed Fellowship</b> , <i>University of Illinois at Urbana Champaign</i>                    | <i>Nov 2013</i>             |
| <b>TAAI Best Master Thesis Award</b> , <i>Taiwanese Association for Artificial Intelligence, Taiwan</i> | <i>Nov 2011</i>             |
| <b>Undergraduate Research Grant</b> , <i>National Science Council, Taiwan</i>                           | <i>Feb 2009 - July 2009</i> |
| <b>Merit-based Excellent Undergraduate Scholarship</b> , <i>NTNU</i>                                    | <i>Sep 2005 - June 2009</i> |
| GPA in the top 1% among students at Dept. of CSIE in NTNU   |                             |