

GAHGENE GWEON

HCI, 5000 Forbes Ave. Pittsburgh, PA 15213. USA
+1 (412) 334- 1458
ggweon@cs.cmu.edu
<http://andrew.cmu.edu/~ggweon>

EDUCATION

Ph. D. in Human Computer Interaction (Expected Spring 2012)
School of Computer Science, Carnegie Mellon University
Thesis Advisor: Carolyn P. Rosé

Master in Human Computer Interaction (Aug 2004)
School of Computer Science, Carnegie Mellon University

B.A. in Computer Science, B.A .in Economics (May 2002)
University of California, Berkeley

RESEARCH INTERESTS

Computer Supported Cooperative Work, Social Computing, Collaborative Learning Process Analysis, Conversation Summarization, Computer Supported Collaborative Learning

RESEARCH EXPERIENCE

Research Intern

IBM, T.J. Watson Research Center, Hawthorne, NY (May 2006 – August 2006)
Internship. Design, implemented a study for evaluating collaborative aspect of DocWizards, a tool which automatically generates and replays procedural documentation.

Research Assistant II

Carnegie Mellon University, Pittsburgh, PA (May 2004 – May 2005)

Full Time. Lead for a project developing an environment to support researchers in building dialogue based help systems and facilitate dialogue related research. Develop and conduct user testing for studies which examine the impact of different characteristics of peer learners on their partner's performance and learning.

Software Engineer

Samsung Advanced Inst. of Technology, Seoul, Korea (April 2003 – July 2003)
Internship. Design, implement and test voice user interface for voice based planner and voice based universal remote control.

TEACHING EXPERIENCE

Instructor

Seoul National University (March 2011 – June 2011)

Developed and taught the "Creative Research Project" course for upper level undergrads.

Teaching Assistant

Carnegie Mellon University (Fall 2004, Fall 2008, Fall 2009)

Assisted the instruction of the human factors course that was designed for upper level undergraduate and graduate students (Fall 2008, Fall 2009).

Assisted the instruction of the methods for human computer interaction course that was designed for upper level undergraduate and graduate students (Fall 2004).

**JOB
EXPERIENCE**

Software Engineer

BravoBrava, Union City, CA (June 2002 – Dec 2002)

Internship. Worked on the code for a smart fridge which is part of smart home system called MiHome which includes face recognition, voice recognition, and handwriting recognition.

Software Engineer

Gene Logic Inc., Berkeley, CA (Summer 2001)

Internship. Worked in UI department implementing an application that parses an OQM file, displays its content in a tree view, allows the user to edit the tree in various ways, and reflects changes in the file.

Lab Assistant III

Public Health, UC Berkeley (January 2000 - Spring 2002)

Part time. Database management for leukemia study research in the School of Public Health. Operate, service, and perform maintenance in all computer labs in School of Public Health. Served as consultant to students regarding rudiments of computer hardware and software operation.

**REFEREED
PUBLICATIONS**

Gweon, G., Raj, B., Rosé, C. P., Agrawal, P., Udani, M. (2011). The automatic assessment of knowledge integration processes in project teams. In Proc. Computer Supported Collaborative Learning. P.462-269. Best Student Paper Award.

Gweon, G., Kane, A., Rosé, C. P. (2011). Facilitating knowledge transfer between groups through idea co-construction processes. In Proc. INGroup.

Gweon, G., Kumar, R. Jun, S. Rosé, C. (2009). Towards Automatic Assessment for Project Based Learning Groups, In Proc. Artificial Intelligence in Education.

Gweon, G., Kumar, R. Rosé, C. (2009). GRASP: The Group Assessment Platform, Poster at Computer Supported Collaborative Learning.

Gweon, G. (2008). Providing Insight into Group Processes. Doctoral Consortium, CHI.

Gweon, G., Bergman, L. Castelli, V., Bellamy, R. (2007). Evaluating and Automated Tool to Assist Evolutionary Document Generation. In Proc. VLHCC.

Rosé, C., **Gweon, G.,** Arguello, J., Finger, S., Smailagic, A., Siewiorek, D. (2007). Towards an Interactive Assessment Framework for Engineering Design Project Based Learning. In Proc. Design Engineering Technical Conferences.

Gweon, G., Rosé, C., Albright, E., Cui, Y. (2007). Evaluating the Effect of Feedback from a CSCL Problem Solving Environment on Learning, Interaction, and Perceived Interdependence. In Proc. Computer Supportive Collaborative Learning.

Gweon, G., Rosé, C., Carey, R., Zaiss, Z. (2006). Providing Support for Adaptive Scripting in an On-Line Collaborative Learning Environment. In Proc. CHI. Honorable Mention Award (Top 5%)

Gweon, G., Ngai, J., Rangos, J. (2005). Enticing Middle School Girls to Programming. In Proc. INTERACT, 431-442.

Gweon, G., Rosé, C., Carey, R., Zaiss, Z. (2005). Towards Reinventing the Peer Collaborative Agent, Poster at Artificial Intelligence in Education.

Gweon, G., Rosé, C., Wittwer, J., Nueckles, M. (2005). Supporting Efficient and Reliable Content Analysis using Automatic Text Processing Technology. In Proc. INTERACT, 1112-1115.

Domingo, M., **Gweon, G.** Rangos, J. (2004). Shake it! In Proc. ACM CHI, v.2 p.1675-1679.

Rosé, C., Donmez, P., **Gweon, G.**, Knight, A., Junker, B., Cohen, W., Koedinger, K., Heffernan, N. (2005). Automatic and Semi-Automatic Skill Coding With a View Towards Supporting On-Line Assessment, In Proc. Artificial Intelligence in Education.

BOOK CHAPTERS

Gweon, G., Jun, S., Lee J., Finger, S., Rosé, C. (2011). A Framework for Assessment of Student Project Groups Online and Offline. Puntambekar, S. & Hmelo-Silver, C. (Eds.) Analyzing Interactions in CSCL: Methodology, approaches, and issues, Springer.

Cui, Y., Kumar, R., Chaudhuri, S., **Gweon, G.**, Rosé, C. (2009). Evaluating the Effect of Social Conversation on Learning, Interaction and Perceived Interdependence in a Collaborative Math Problem Solving Environment. Stahl, G. (Eds) Studying Virtual Math Teams, Ch 19.

WORKSHOP PAPERS

Gweon, G., Rosé, P. (2007). Reporting on Collaborative Discourse. Sense making workshop at HCIL, Univ. of Maryland.

Gweon, G., Rosé, C., Albright, E., Cui, Y. (2006). Help Providers and Help Receivers in a Computer Supported Collaborative Learning Environment. In Proc. Computer Supported Cooperative Work, workshop 10 (Role Based Collaboration).

Gweon, G., Rosé, C., Carey, R., Zaiss, Z. (2005). Exploring the Instructional Effectiveness of Mixed-Language Peer Problem Solving Interactions. In Proc. Artificial Intelligence in Education, workshop 8 (XLANG- Mixed Language Explanations in Learning Environments).

Gweon, G., Arguello, J., Pai, C., Carey, R., Zaiss, Z., Rosé, C. (2005). Towards a Prototyping Tool for Behavior Oriented Authoring of Conversational Agents for Educational Applications. In Proc. ACL Second Workshop on Building Educational Applications Using Natural Language Processing.

Kumar, R., **Gweon, G.**, Joshi, M., Cui, Y., Rosé, C. (2007). "Supporting Students Working Together on Math with Social Dialogue", SLATE Workshop on Speech and Language Technology in Education, Farmington, PA.

Kumar, R., **Gweon, G.**, Joshi, M., Cui, Y., Nwagwe, A., Rosé, C. (2007). "Evaluating the Effect of Social Conversation on Learning, Interaction, and Perceived Interdependence in a Collaborative Math Problem Solving Environment", Chat Analysis Workshop, Computer Supportive Collaborative Learning, New Brunswick, NY.

AWARDS AND SCHOLARSHIPS

Best Student Paper Award at Computer Supported Collaborative Learning (2011)

Doctorial Consortium at ACM CHI (2008)

Honorable Mention Award at ACM CHI. Nominated from the top 5% of submissions (2006)

Graduate Small Project Help (GuSH) from Graduate Support Programs (GSA) at Carnegie Mellon University (2007)

Student Design Competition, 3rd Place at ACM CHI (2004)

LeeJongWhan Foundation Scholarship, Full Tuition (2003-2004)

Graduate Conference funding from GSA at Carnegie Mellon University (2004, 2006)

UC Berkeley I-house Scholarship (2001, 2002)

SATII Korean Foundation Scholarship (1999)

SERVICE AND MEMBERSHIPS

Work In Progress Program Committee for ACM CHI 2011

Member, Korean-American Scientists and Engineers Association (Aug 06- current)

Member & Vice President of Education Toast Masters (Nov 06 – Nov 07)

Member of CMU, School of Computer Science Dec5, Inc : graduate student group (Aug 06 – Aug 06)

President of Korean Graduate Students Association in CMU, SCS (Aug 05 – Aug 06)

REFERENCES

Carolyn P. Rosé, Ph.D.

Associate Professor, Carnegie Mellon University.

Phone: +1 (412) 268-7130. Email: cprose@cs.cmu.edu

Daniel P Siewiorek, Ph.D.

Buhl University Professor of ECE/ CS

Phone: +1 (412) 268- 2570. Email: dps@cs.cmu.edu

Susan Finger, Ph.D.

Program Director, National Science Foundation. Professor, Carnegie Mellon University.

Phone: + 1 (412) 268-8828. Email: finger@cmu.edu