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RESEARCH INTERESTS

Computing Education, Learning Sciences and Technology, Educational Technology, Teacher Education

EDUCATION

Georgia Institute of Technology   2006 ~ 2011

Ph.D. in Human-Centered Computing (December 2011)

Area: Learning Sciences & Technology (LS&T), Computer Science Education

Thesis: Building Professional Identity as CS Teachers – Supporting Secondary CS Teachers through Reflection and Community Building

   Committee: Mark Guzdial (advisor); Amy Bruckman, Barbara J. Ericson, Janet L. Kolodner (Georgia Tech); Joanna Goode (University of Oregon)

East China Normal University (ECNU)   2002 ~ 2005

M.S. in Educational Information Technology

Central China Normal University (CCNU)   1998 ~ 2002

B.S. in Educational Technology

PROFESSIONAL EXPERIENCE

Contextualized Support for Learning Lab, Georgia Institute of Technology

Graduate Research Assistant   2006 ~ 2011

Advisor: Dr. Mark Guzdial

Projects:

- NSF CPATH (2008 ~ Present): Improving Computing Education by Developing Regional Communities of Computing Educators (DCCE) — design, implement and evaluate the professional development program for CS teachers (This project is active until August 2012).
- NSF-BPC (2007 ~ 2011): Statewide Vertical Alliance to Broaden Participation through Innovative, Inviting, and Relevant Computing Education — studied factors that affect CS teachers' adoption of curriculum innovations.
- NSF-CCLI (2006 ~ 2007): Using Media Computation to Attract and Retain Students in Computing — helped teachers use Media Computation curriculum, conduct assessment and share results online.

Educational Resources Center, Shanghai Distance Education Group, Shanghai

Project Coordinator & Instructional Designer   February ~ July 2005

Manager: Zhihua Liang

Project: Design Subject Specific Learning Community

Educational Multimedia Lab, East China Normal University, Shanghai, China
Graduate Research Assistant   2002 ~ 2005
Advisor: Meilin Xu
Projects:
- Research on Web-based Metacognitive and Self-regulated Learning & Learning Environments (Thesis)
- Multimedia Courseware Development for College English V-VI
- Design of Web-based Learning System for Medical Students in Renji Medical College (Instructional Design)
- Design of Webquest Materials for Middle School Students
- Investigation of the Current Informatization of Schools in Qingpu, Songjiang & Zhabei Districts in Shanghai

PUBLICATIONS
Journal Articles
[J.1] Ni, L., Xu, M. (2005). Discussion on web-based adaptive learning system. *Introduction of Educational Technology*, 1, 28-29.
[J.2] Ni, L., Xu, M. (2004). An example of Webquest on Synthetic and Practical Activity Curriculum for students in junior middle school. *China Educational Technology*, 4, 34-37.
[J.3] Ni, L., Jiang, B. (2002). Excellent programs on science and education in need, *Chinese TV*, special issue, 39-41.

Conference Papers (Peer-Reviewed)
[C.1] Ni, L., Guzdial, M. (2012). Who AM I? Understanding High School Computer Science Teachers' Professional Identity. To appear in *the Proceedings of the 43th ACM Technical Symposium on Computer Science Education* (Raleigh, NC, USA). SIGCSE'12. ACM, New York, NY.
[C.2] Ni, L., Guzdial, M. (2011). Prepare and support computer science teachers: understanding CS teachers' professional identity, Paper presented at *the American Educational Research Association (AERA) Annual Meeting* (New Orleans, Louisiana, USA).
[C.3] Ni, L., Guzdial, M., Tew A. E., McKlin, T. (2011). A regional professional development program for computing teachers: the Disciplinary Commons for Computing Educators. Paper presented at *the American Educational Research Association (AERA) Annual Meeting* (New Orleans, Louisiana, USA).
[C.4] Ni, L., Guzdial, M., Tew A. E., Morrison, B, Galanos, R. (2011). Building a community to support HS CS teachers: the Disciplinary Commons for Computing Educators. *Proceedings of the 42th ACM Technical Symposium on Computer Science Education* (Dallas, Texas, USA). SIGCSE'11. ACM, New York, NY, 553-558.
[C.5] Ni, L., McKlin,T, Guzdial, M. (2010). How do computing faculty adopt curriculum innovations?: the story from instructors. *Proceedings of the 41th ACM*

Technical Symposium on Computer Science Education (Milwaukee, Wisconsin, USA). SIGCSE'10. ACM, New York, NY, 544-548.

[C.6] Ni, L. (2009). What makes CS teachers change? Factors influencing CS teachers' adoption of curriculum innovations. *Proceedings of the 40th ACM Technical Symposium on Computer Science Education* (Chattanooga, TN, USA). SIGCSE '09. ACM, New York, NY, 544-548.

[C.7] Summet, J., Kumar, D., O'Hara, K., Walker, D., Ni, L., Blank, D., and Balch, T. (2009). Personalizing CS1 with robots. *Proceedings of the 40th ACM Technical Symposium on Computer Science Education* (Chattanooga, TN, USA). SIGCSE '09. ACM, New York, NY, 433-437.

[C.8] Bruckman, A., Biggers, M., Ericson, B., McKlin, T., Dimond, J., DiSalvo, B., Hewner, M., Ni, L., and Yardi, S. (2009). "Georgia computes!": improving the computing education pipeline. *Proceedings of the 40th ACM Technical Symposium on Computer Science Education* (Chattanooga, TN, USA). SIGCSE '09. ACM, New York, NY, 86-90.

[C.9] Ni, L., Xu, M. (2003). Discussion on instructional design of Webquest materials. *The 11th Annual Conference of National Computer-Based Education Society.* Jinhua, Zhejiang, China, 40-43.

[C.10] Ni, L. (2003). Discussion on online teaching and affective education integration, *Proceedings of the 7th IEEE Global Chinese Conference on Computers in Education (GCCCE)*, Nanjing, Jiangsu, China, 939-943.

Doctoral Consortiums & Poster Presentations

[D.1] Ni, L., (2011, August 7). Understanding and supporting secondary CS teachers' professional identity development through reflection and community building, Presented at Doctoral Consortium in the Seventh International Computing Education Research Workshop (ICER), Providence, RI.

[D.2] Ni, L., (2010, September 30). Building professional identity as CS teachers: supporting secondary CS teachers through reflection and community building, Presented at PhD Research Forums in Grace Hopper Celebration of Women in Computing. Atlanta, GA.

[D.3] Ni, L., (2008, September 30). Supporting Computing Educators' Change and Scholarship, Presented at Doctoral Consortium in ICER 2008, Sydney, Australia.

[D.4] Ni, L., (2008, March 12&15). What makes CS teachers change: factors that influence CS teachers' adoption and change, Presented at Doctoral Consortium and Poster Session in SIGCSE 2008, Portland, OR.

[D.5] Ni, L., (2007, October 17). What makes CS teachers change: factors that influence CS teachers' adoption and change, Presented at Poster Session in Grace Hopper Celebration of Women in Computing. Orlando, FL.

Teaching-Related Experiences

Georgia Institute of Technology   Spring 2009
Teaching Assistant, "Issues in Human-centered Computing" (CS7455)
Instructor: Dr. Beth Mynatt

Georgia Institute of Technology   Summer 2007 & 2008
Teaching Assistant, Media Computation & Georgia Computes! Introductory CS Courses
    Workshops for Computing Faculty and High School Teachers
Instructor: Dr. Mark Guzdial

Shanghai Institute of Financial Research, Bank of China   February 2004
Guest Lecturer, Multimedia Courseware Development in Enterprise Informatization
    Training
Co-taught with Professor Meilin Xu

East China Normal University   Spring 2003
Teaching Assistant, Educational Multimedia Design (undergraduate course)
Instructor: Professor Meilin Xu

Central China Normal University   Fall 2001
Teaching Practicum for Educational Technology Majors

ChenjiaBa Village, Hubei Province   Summer 2000
Volunteer as a Teacher for Local K-12 Students, Project of Serving the Countryside

MEMBERSHIPS & SERVICE
Professional Memberships
American Educational Research Association   2007 ~ Present
Association for Computing Machinery   2006 ~ Present
    SIG for Computer Science Education (SIGCSE)   2007 ~ Present
CRA-W Grad Cohort Member   2007

Reviewing Activities
International Conference of the Learning Sciences (ICLS)   2008 ~ present
SIGCSE Technical Symposium on Computer Science Education   2009 ~ present
American Educational Research Association (AERA) Annual Meeting 2009 ~ present
President's Undergraduate Research Awards (PURA)   2011

Other Service
Co-conference chair, The Computing Commons Collaboration Conference
    (C^3 Conferences, https://sites.google.com/site/dccec3)   2011
Helped with local conference arrangements, ICER' 07 (Atlanta, GA)   2007

FUNDED RESEARCH GRANTS
[G.1] NSF CPATH (Community Building Track): Improving Computing Education by
    Developing Regional Communities of Computing Educators
    Grant Proposal Co-Writer (2008)
    Awarded $439,827 by National Science Foundation (Award # 0829601)
    Project period: August 2008 through August 2011 (Extended to August 2012)

Grant proposal co-written with PI, Dr. Mark Guzdial

HONORS & AWARDS

2005 "The Excellent Graduate of Shanghai City", Shanghai Municipal Educational Committee.

2002-2003 & 2003-2004 "The Excellent Student", East China Normal University (ECNU).

2002-2003 & 2003-2004 Academic Excellence Scholarship for Graduate students, ECNU.

2002 "The Excellent Graduate", Central China Normal University (CCNU).

2000 "The Excellent Individual in Project of Serving the Countryside", CCNU.

1998-1999, 1999-2000 & 2000-2001 "The Excellent Student", First Class Academic Scholarship, CCNU.