Yuanyuan Jiang

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EDUCATION

The University of Iowa *Sep.2012-present*

Ph.D. Candidate, Computer Science (PhD expected: May 2018)
Advisor: Joseph K. Kearney
Areas of study: Human-Computer Interaction, Virtual Reality
GPA: 3.88/4.0

Beijing University of Posts and Telecommunications (BUPT) *Sep.2008-Jul.2012*

Bachelor of Engineering
Major: Network Engineering
GPA: 3.46/4.0 (Major courses: 3.51/4.0)

RESEARCH INTERESTS

Interdisciplinary research in virtual reality (VR); human computer interaction (HCI); animated characters; currently with a focus on multi-person full-body joint action in shared VR.

HONORS AND AWARDS

- Apr. 2017 Graduate College Summer Fellowship
- Jun. 2016 Graduate Student Senate (GSS) Travel Funds Award
- Mar. 2016 Graduate College Post-Comprehensive Research Award
- Apr. 2016 Graduate College Summer Fellowship (declined)
- Nov. 2013 Strategic Initiative Funds (SIF) Award for best performance in qualifying exam, Computer Science Department, University of Iowa
- Oct. 2010 Second-class Scholarship (Top 25%), Student of Excellence (Top 10%), BUPT
- Oct. 2009 Third-class Scholarship (Top 40%), Excellent Student Leader (Top 10%), BUPT

RESEARCH EXPERIENCE

Visiting Research Assistant *May.2016-Aug.2016*

Mixed Reality Lab (MxR), Institute for Creative Technologies (ICT), University of Southern California

Graduate Research Assistant *Aug.2012-present*

Hank Virtual Environments Lab, The University of Iowa

Undergraduate Research Assistant *Jun.2011-Jun.2012*

Broadband Network & Digital Media Lab at Tsinghua University

PUBLICATIONS

- **Y. Jiang**, E. E. O'Neal, S. Zhou, J. M. Plumert, and J. K. Kearney. " Crossing Roads with a Computer-Generated Agent: Lasting Effects on Perception-Action Tuning" (to be submitted)
- **Y. Jiang**, E. E. O'Neal, P. Rahimian, J. P. Yon, J. M. Plumert, and J. K. Kearney. "Joint Action in a Virtual Environment: Crossing Roads with Risky vs. Safe Human and Agent Partners", (under review at IEEE TVCG)
- **Y. Jiang**, E. E. O'Neal, J. P. Yon, L. Franzen, P. Rahimian, J. M. Plumert, J. K. Kearney. (in press). "Acting Together: Joint Pedestrian Road Crossing in an Immersive Virtual Environment." ACM *Transactions on Applied Perception.*
- **Y. Jiang**, E. E. O'Neal, L. Franzen, J. P. Yon, J. M. Plumert, and J. K. Kearney. (2017). "The Influence of Stereoscopic Image Display on Pedestrian Road Crossing in a Large-Screen Virtual Environment." In *Proceedings of the ACM Symposium on Applied Perception,* Cottbus, Germany, September 2017.
- E. E. O'Neal, **Y. Jiang**, L. Franzen, P. Rahimian, J. P. Yon, J. K. Kearney, J. M. Plumert. (2017). "Changes in Perception-Action Tuning over Long Time Scales: How Children and Adults Perceive and Act on Dynamic Affordances When Crossing Roads." *Journal of Experimental Psychology: Human Perception and Performance,* Advance online publication. http://dx.doi.org/10.1037/xhp0000378.
- **Y. Jiang**, E. E. O'Neal, P. Rahimian, J. P. Yon, J. M. Plumert, J. K. Kearney. (2016). "Action Coordination with Agents: Crossing Roads with a Computer-Generated Character in a Virtual Environment." *Proceedings of the ACM Symposium on Applied Perception,* 57-64, 2016.
- P. Rahimian, E. E. O'Neal, J. P. Yon, L. Franzen, **Y. Jiang**, J. M. Plumert, and J. K. Kearney. (2016). "Using a Virtual Environment to Study the Impact of Sending Traffic Alerts to Texting Pedestrians." *Proceedings of the 2016 IEEE Virtual Reality*, 141-149.
- P. Rahimian, **Y. Jiang**, J. P. Yon, L. Franzen, J. M. Plumert, J. P. Yon, and J. K. Kearney. (2015). "Designing an immersive pedestrian simulator to study the influence of texting and cellphone alerts on road crossing." *Proceedings of the 2015 Road Safety and Simulation International Conference*.
- Y. Liu, **Y. Jiang**, and Y. Liu, "A visual hull free algorithm for fast and robust multi-view stereo," in *International Conference on 3D Imaging*, 2011.

CONFERENCE PRESENTATIONS

Oral Presentations

- **Y. Jiang**, J. Kearney, J. Plumert, "Using Agents and Avatars to Study Joint Action", in Development and Learning from Theory to Application (DeLTA) center Symposium, University of Iowa, Nov. 2017.
- **Y. Jiang**, "Connected Virtual Environment Simulators", in *SAFER-SIM Virtual Symposium*, University of Iowa, Oct. 2017.
- **Y. Jiang**, "Action Coordination with Agents: Crossing Roads with a Computer-Generated Character in a Virtual Environment", in *Symposium on Applied Perception*, Anaheim, CA, July. 2016.
- **Y. Jiang**, "Using Virtual Environments to Study Pedestrian Road Crossing", in 1st *Iowa Computer Science Graduate Research Symposium*, Iowa City, IA, Nov. 2015.
- **Y. Jiang**, and E.E. O'Neal, "Peer Influences on Risky Child and Adolescent Road Crossing", in *Safer-Symposium*, San Juan, Puerto Rico, Feb. 2015.

Poster Presentations

- **Y. Jiang**, E. E. O'Neal, S. Zhou, J. M. Plumert, and J. K. Kearney. " Crossing Roads with a Computer-Generated Agent: Lasting Effects on Perception-Action Tuning", in the *ACM Symposium on Applied Perception*, Cottbus, Germany, September 2017
- E. E. O'Neal, K. Brown, **Y. Jiang**, P. Rahimian, J. K. Kearney, and J. M. Plumert, "Parental influence on road-crossing safety," in the *2017 Biennial Meeting of the Society for Research in Child Development*, Austin, TX, April, 2017.
- **Y. Jiang**, E. E. O'Neal, J. P. Yon, L. Franzen, P. Rahimian, J. M. Plumert, J. K. Kearney "Acting Together: Joint Pedestrian Road Crossing in an Immersive Virtual Environment", in the *IEEE Virtual Reality Conference*, Greenville, South Carolina, Mar. 2016.
- E.E. O'Neal, L. Franzen, K. Brown, **Y. Jiang**, P. Rahimian, J.P. Yon, J.K. Kearney, & J.M. Plumert, "Learning to link decisions and actions: Developmental change in children's road-crossing skills", in the *9th Biennial Meeting of the Cognitive Development Society*, Columbus, OH, Oct. 2015.

TEACHING EXPERIENCE

Instructor   *Spring 2017*
Foundations of Computer Science, Cornell College
Solo teaching, with a student-centered teaching style

Graduate Certificate in College Teaching Program   *Fall 2016-Spring 2018*
College of Education, University of Iowa
- Three-part program preparing graduate students for careers in post-secondary education, minimum 12 semester hours.
- Program includes college teaching coursework, teaching practicum with two faculty members (one from Education), complete teaching portfolio, and three-faculty member committee's review.

Practicum in College Teaching   *Fall 2016*
Educational Psychology, under guidance of Prof. Mitchell Kelly, University of Iowa
Teaching in collaboration with faculty, observation and critiques of teaching

Graduate Teaching Assistant   *Spring 2015*
Introduction to Computer Science, University of Iowa
Leading discussion sessions, designing discussion session material, grading, and assisting faculty.

Graduate Teaching Assistant   *Fall 2014*
Computer Organization, University of Iowa
Grading, resolving questions and assisting faculty.

Graduate Teaching Assistant   *Spring 2015*
Introduction to informatics (graduate level), University of Iowa
Grading, resolving questions and assisting faculty.

PROFESSIONAL SERVICE

GWIS National Fellowship Committee   *Nov.2016-present*
Graduate Women in Science (GWIS), a global organization in promoting woman in science; served on 2017-2018 fellowship committee, duties involved contacting experts, soliciting reviews, etc.

Panelist   *Nov. 2016*
Applying to Graduate School Workshop, Woman in Science and Engineering (WISE) Peer Mentoring Program, the University of Iowa, Iowa City, Iowa

Session Chair   *Nov. 2016*
2nd Graduate Research Symposium, session 2, the University of Iowa, Iowa City, Iowa

Session Chair   *Oct. 2016*
Annual Consortium for Computing Science in Colleges (CCSC) Northwestern Regional Conference, paper session 1, Lewis & Clark College, Portland, Oregon

Panelist   *Sep. 2016*
Lunch and Learn for Computer Science MCS & PhD students, the University of Iowa, Iowa City, Iowa

Conference Reviewer   *Aug. 2016*
Invited paper reviewer for IEEEVR 2017 conference, Los Angeles, California

Graduate Student Panelist   *Aug.2015*
Graduate Student Orientation, Computer Science Department, the University of Iowa, Iowa City, Iowa

UNIVERSITY SERVICE

Class Committee of Network Engineer Major, BUPT   *Mar.2009-June.2012*
Chairperson (2/160)
• Organized various activities, such as social projects, major's newspaper and website, outings, etc.
• Assisted the instructor with administrative tasks.
• Awarded as excellent student leader.

BUPT Young Leader Training Program   *Oct.2009-Oct.2010*
Member
• The program trains outstanding student leaders for the Student Union of Beijing, which enrolls 60 students (less than 1%) in my school each year.
• Participated in the social practices outside school, such as Quality Extension Training Program. Engaged in leadership training one day per week for whole year.

Organization Department of School of Computer Science, BUPT   *Sep.2008-Mar.2009*
Coordinator
• Participated in administrative tasks. Organized activities, such as debates and cultural festivals.