Beibin Li

Curriculum Vitae

23 Nicoll St.
New Haven, CT, 06511
(901) 734 3790
beibin.li@yale.edu
beibinli.com

Education

May 2015 **Bachelor of Science**, *Mathematics*, University of Michigan, Ann Arbor.

May 2015 **Bachelor of Science**, *Computer Science*, University of Michigan, Ann Arbor.

Experience

2015–Present **Rearch Fellow in Translational Technologies in Development**, Technology Innovation Lab, Child Study Center, Yale University.

Advisor: Frederick Shic, Ph.D.

Design eye-tracking experiments using Presentation, Python, PsychoPy, SR EyeLink, Eye Tribe, and Arduino. Use Matlab, Python, and R to analyze data. Implement virtual reality project using Oculus Rift. Communicate with collaborating implementation sites to troubleshoot eye-tracking experiments in a large NIH-funded multisite project.

2014–2015 **Instructional Aide**, *School of Engineering*, University of Michigan, Ann Arbor.

Professors: Seth Pettie, Ph.D., and Grant Schoenebeck, Ph.D.

EECS 376 (Foundations of Computer Science). Taught discussion sections on Finite Automata, Context Free Language, Turing Machine, complexity analysis, and NP problems. Answered student questions in online forum and held office hours. Designed section notes, homework and exams, and graded exams for more than 300 students. Reviews from students: *"Discussions are helpful. If the lectures were taught like the discussions, I would be getting a lot more out of this course", "...you answer my questions *so* well. You always seem to understand what the student is asking..."*

2014–2015 **Research Fellow**, *Transportation Research Institution*, University of Michigan, Ann Arbor.

Professors: Paul Green, Ph.D.

Used JMP and R to analyze data. Used ISAT to design virtual roads for a driving recognition system experiment. Taught students to use software: Jack, Morae, Cogtool, and IMPRINT to practice human factor analysis.

Awards

2014 The Mathematical Contest in Modeling (MCM), Honorable Mention

2013–2014 University Honor, University of Michigan

2010 Presidential Scholarship, Rhodes College

Publications

2016 **Beibin Li**, Quan Wang, Erin Barney, Logan Hart, Carla Wall, Katarzyna Chawarska, Irati Saez de Urabain, Timothy J. Smith, and Frederick Shic, "Modified DBSCAN Algorithm on Oculomotor Fixation Identification", *Eye-Tracking Research and Applications Symposium 2016 (ETRA 2016)*

2016 **Beibin Li**, Quan Wang, Laura Boccanfuso, and Frederick Shic, "Optimality of the Distance Dispersion Fixation Identification Algorithm", *Eye-Tracking Research and Applications Symposium 2016 (ETRA 2016)*

2016 Quan Wang, Laura Boccanfuso, **Beibin Li**, Amy Yeo-jin Ahn, Claire E. Foster, Margaret P. Orr, Brian Scassellati, Frederick Shic, "Thermographic Eye Tracking", *Eye-Tracking Research and Applications Symposium 2016 (ETRA 2016)*

2016 Laura Boccanfuso, Quan Wang, Iolanda Leite, **Beibin Li**, Colette Torres, Lisa Chen, Nicole Salomons, Claire Foster, Erin Barney, Yeojin Amy Ahn, Brian Scassellati, and Frederick Shic, "A Thermal Emotion CLassifier for Improved Human-Robot Interaction", *IEEE International Symposium on Robot and Human Interactive Communication 2016 (RO-MAN 2016), (in review)*

2016 **Beibin Li**, Laura Boccanfuso, Quan Wang, Frederick Shic, ŞHuman Robot Interaction Detection for Sphero RobotsŤ (In Preparation).

Computer skills

Advanced	C++, PYTHON, MATLAB, R, VIM
Intermediate	HTML, LaTeX, Swift, SQL, Visual Studio, XCode, Eclipse, Mathematica
Basic	SPSS, JMP, Unity