
Education

08/2013–05/2017 **University of Notre Dame, Notre Dame, IN.**
B.E., Computer Science, Economics
GPA: 3.99/4.0

Experience

Research

02/2016–present **Natural Language Processing Group**, University of Notre Dame.
Advisor: David Chiang
◦ Implemented various algorithms to study the sentence length distribution of PCFG
◦ Improve graph grammar HRG to model graph size

08/2014–03/2016 **Emotive Computing Lab**, University of Notre Dame.
Advisor: Sidney D'Mello
◦ Studied people's mind wandering while they are watching a movie;
◦ Implemented data processing programs and applied machine learning algorithms

06/2014–08/2014 **Nanotechnology Research Fellowship**, University of Notre Dame.
Advisor: Patrick Fay
◦ Did research on Quilt Packaging
◦ Run simulations with HFSS and designed CPW Geometry

Industry

05/2016–08/2016 **LinkedIn Inc., Software Engineering Intern**, Mountain View, CA.
◦ Developed and integrated a Java application to automate stress testing for the LinkedIn android application
◦ Used face detection in android to develop an image cropping utility for LinkedIn android application

05/2015–08/2015 **Google Inc., Engineering Practicum Intern**, Mountain View, CA.
◦ Improved the GoogleCamera Refocus app performance by optimizing code, improving memory cache, and applying other compiler optimization
◦ Used Android Studio and command line development tool to develop parallel image processing code for android

06/2014–08/2014 **SpringBoard Engineering Solutions, NDWaves Intern**, Notre Dame, IN.
◦ Designed, coded, and made creative musical instruments with Arduino for a creative concert of Third Coast Percussion in October, 2014

Publication

2016 Bixler, Robert, Sidney D'Mello, Caitlin Mills, and Xinyi Wang. "Automatic Gaze-based User-independent Detection of Mind Wandering during Computerized Reading." *User Model User-Adap Inter User Modeling and User-Adapted Interaction* 26.1 (2015): 33-68

Teaching

Fall 2016	Design and Analysis of Algorithms	<i>University of Notre Dame, TA</i>
Spring 2016	Theory of Computing	<i>University of Notre Dame, TA</i>

Honors and Awards

- 2016-2017 **Tau Beta Pi Engineering Scholarship**, *University of Notre Dame*.
Fall 2015 **Grace Hopper Scholarship**, *Travel Award to Grace Hopper Conference*.
2013-2016 **Dean's List**, *All Semesters*, *University of Notre Dame*.
2013 **Greater China Scholarship**, *University of Notre Dame*.

Skills

Natural Language: Chinese(Native), English(Bilingual)

Computer: C/C++, Python, Java, Android, Django