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## Education

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

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## 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

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## 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

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## Teaching

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

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## 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*.

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## Activities

- 09/2015–Now **Lean In Notre Dame**, *Co-Founder*, Notre Dame, IN.
- Co-founded the Lean In Notre Dame chapter
  - Lead bi-weekly CSE circle events

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## Skills

Natural Language: Chinese(Native), English(Bilingual)  
Computer: C/C++, Python, Java, Android, Django