

# OMOJU THOMAS MILLER

DATA SCIENTIST WITH 6 YEARS COMPUTATIONAL INTELLIGENCE EXPERIENCE.  
 EX-GOOGLE | WHITE HOUSE INFLUENCER | UC BERKELEY PHD.

## skills

Programming Languages: Python, C, C++, Ruby, HTML, Prolog, SQL  
 Framework: XGBoost, NLTK, Pandas, Numpy, SciKit Learn  
 Version Control Systems: Git

## projects

- Predicting Gender in Introductory CS** Sept 2016  
 - Designed a comprehensive data-driven investigation on the dynamics of gender in intro CS.  
 - Implemented a XGBoost classifier to predict gender of CS students based on experience.
- Semantic Web Expert System Shell (SWEXSYS)** Sept 2006  
 - Created an intelligent system platform capable of reasoning with multiple ontologies.  
 - Adapted SWEXSYS platform to sensor fusion using Dempster-Shafer theory of uncertainty.

## profession experience

- UC Berkeley - CSEd Doctoral Candidate** Berkeley, CA | Dec 2013-May 2016  
 - Designed a data-driven, machine learning, research study to investigate gender in intro CS.  
 - Developed a data science unit within a historical [intro CS course](#), CS10.  
 Omoju Miller. 2016. "Gaining Insights into the Effects of Culturally Responsive Curriculum on Historically Underrepresented Students' Desire for Computer Science." *Proceedings of the 123rd ASEE Annual Conference, New Orleans, LA.*
- Google - Technology Portfolio Manager** Mountain View, CA | Feb 2014-Dec 2015  
 - Co-led a \$15M CSEd portfolio. Grew the portfolio by 25%.  
 - Co-led the development of vocabulary glossary for Android Development for Beginners course.
- ICSI<sup>1</sup> - Graduate Researcher** Berkeley, CA | Mar 2011-Dec 2012  
 - Implemented a conceptual metaphor [Semantic MediaWiki](#) in English, Spanish, and Farsi.  
 - Contributed to the design of conceptual metaphor framework.
- UniversityNow - Data Scientist (Intern)** San Francisco, CA | Jun 2012 -Aug 2012  
 - Led a 3 person team responsible for creating an analytics console for understanding user behavior.  
 - Built back-end of data analytics console.
- Center for Advanced Sensors - Graduate Researcher** Memphis, TN | Aug 2003-Nov 2006  
 - Co-designed [OntoSensor](#), a sensor ontology using Semantic Web Ontology Language (OWL).  
 - Created and adapted SWEXSYS platform to sensor fusion.  
 - Co-wrote one of the most cited research papers in its area  
 D.J. Russomanno, C. Kothari and O. Thomas. 2005. "[Building a Sensor Ontology: A Practical Approach Leveraging ISO and OGC Models.](#)" *The 2005 International Conference on Artificial Intelligence, Las Vegas, NV* 637-643.
- Thoughtware Learning Technologies - Software Engr** Memphis, TN | Aug 1999-Nov 2001  
 - Contributed to the development of Internet based workforce development management system.

## education

- Udacity - Machine Learning Nanodegree** (In Progress)  
**UC Berkeley - Computer Science Education, Ph.D.** 2016  
**University of Memphis - Electrical and Computer Engineering, M.S.** 2004  
**University of Memphis - Computer Science, B.S.** 2001

## grants, honors, & awards

- Levo 100: Transformer, Levo League, California** 2015  
**Bloomberg Beta Future Founder, Bloomberg Beta, California** 2014  
**Winner, White House Dept of Edu EdDataPalooza, Washington DC** 2014

<sup>1</sup>International Computer Science Institute