
Mike Izbicki

ABOUT ME

I am a phd student at UC Riverside. I study how to make machine learning algorithms faster under Dr. Christian Shelton. Most of my projects are listed on github (<http://github.com/mikeizbicki>) and my personal webpage (<http://izbicki.me>). The best way to contact me is via email at mike@izbicki.me.

EDUCATION

University of California Riverside	2011-Present
PhD, Computer Science	
Johns Hopkins University	2008
MS, Computer Science	
United States Naval Academy	2004-2008
BS, Computer Science	

TEACHING

I was the lecturer at the Pyongyang University of Science and Technology (PUST) for:

Open Source Machine Learning	Fall 2016
Algorithm Design	Fall 2016
Algorithm Design	Fall 2015
Discrete Math	Fall 2015

I was the lecture at the University of California Riverside (UCR) for:

Software Construction	Spring 2015
Software Construction	Winter 2015
Software Construction	Fall 2014
Software Construction	Summer 2014
Introduction to the World Wide Web	Winter 2014
Intermediate Data Structures and Algorithms	Fall 2013
Introduction to Data Structures	Spring 2013

I was a teaching assistant at UCR for:

Software Construction	Spring 2014
Introduction to Computer Science II	Winter 2013
Introduction to Computer Science I	Fall 2012
Computer Security	Fall 2012

RESEARCH

Papers currently under review:

1. Mike Izbicki, and Christian Shelton. “Communication-Efficient Distributed Maximum Likelihood Estimation with the Optimal Weighted Average.”

Refereed papers:

1. Mike Izbicki, Sajjad Amini, Christian Shelton, and Hamed Mohensian-Rad. “Identification of Destabilizing Attacks in Power Systems” American Controls Conference (ACC), 2017.
2. Mike Izbicki, Christian Shelton. “Faster Cover Trees,” International Conference of Machine Learning (ICML), 2015.
3. Mike Izbicki. “Algebraic classifiers: a generic approach to fast cross-validation, online training, and parallel training,” International Conference of Machine Learning (ICML), 2013.

Workshop papers, invited presentations, and small articles:

1. “Faster Cover Trees” presented at CalState Fullerton, August 2016.
2. “Open Sourcing the Classroom.” Graduate student research competition at SigCSE 2016. **3rd place award.**
3. “Open Sourcing the Classroom.” International Conference of the Pyongyang University of Science and Technology (IcoPUST), 2015.
4. “Bashing Haskell: Reimplementing Haskell’s Parsec Library in the Unix Shell.” SigBOVIK 2015.
5. “Modeling data with algebra.” Workshop on Data Centric Programming (DCP), 2014.
6. “HLearn: a machine learning library for Haskell.” Trends in Functional Programming (TFP), 2013.
7. “The open source software package HLearn.” Workshop on Machine Learning Open Source Software (MLOSS), 2013.
8. “Two monoids for solving NP-complete problems.” The Monad Reader, 2013.
9. “Machine learning? Why not monoids?” Presented at Facebook, September 2013.