

William Michael Landau

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<http://will-landau.com/>
<http://github.com/wlandau/>

Education

PhD, Statistics, Iowa State University	Expected May 2016
MS, Statistics, Iowa State University	May 2013
BS, Mathematics, University of Chicago	June 2011

Employment

Research Assistant⁺⁺ June 2013 - present

- Jointly developed a fully Bayesian method to detect important genes in high-dimensional genomic datasets.
- Authored an R package with a [CUDA](#) backend for massively parallel computation.
- NIH grant R01GM109458

Research Assistant⁺⁺ August 2013 – December 2013

GPU Computing Seminar Series August 2012 – December 2012

- Authored and presented a high-performance computing seminar series at <http://will-landau.com/gpu/>, also on [YouTube](#).

Course Instructor⁺⁺ January 2013 – May 2013

STAT 305: Engineering Statistics January 2012 – May 2012

Teaching Assistant⁺⁺ August 2011 – December 2011

STAT 231: Engineering Probability

STAT 105: Introduction to Engineering Statistics

Leadership

Creator and Organizer⁺⁺ September 2015 – Present

Cloud Computing Working Group

- Presented and coordinated tutorial seminars on cloud computing services and on-campus computing clusters.

Computation Advisory Committee⁺⁺ September 2015 – Present

Volunteer Instructor⁺ March 13, 2014

Office of Precollegiate Programs for Talented and Gifted (OPPTAG)

- Taught probability concepts to middle school students using an in-class game.

Preparing Future Faculty Fellow⁺ August 2013 – June 2014

⁺⁺ Iowa State University Department of Statistics

⁺ Iowa State University

Skills

Data science

- Hierarchical models, Bayesian methods, Markov chain Monte Carlo, high-dimensional data analysis, linear and nonlinear models, data mining, machine learning, predictive modeling, multivariate analysis, statistical computing, exploratory analysis, visualization, genomics data analysis

Computing

- R, R package development, Rcpp, C/C++, CUDA C/C++, shell scripting, Python, JavaScript, SAS, SQL, AWK, Haskell, Fortran

Markup

- R Markdown, Markdown, ioslides, knitr, LaTeX, HTML, CSS

References

Jarad Niemi

niemi@iastate.edu

- PhD major professor

Peng Liu

pliu@iastate.edu

- MS major professor

Additional references available on request.

Hobbies

Brazilian Jiu Jitsu, CrossFit, sailboat racing and coaching, windsurfing