

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
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- Developing a fully Bayesian method to detect important genes in high-dimensional genomic datasets.
- Authoring an R package that uses high-performance massively parallel computing with [CUDA GPUs](#).
- NIH grant number R01GM109458.

Research Assistant⁺⁺	August 2013 – December 2013
GPU Computing Seminar Series	August 2012 – December 2012

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

Course Instructor⁺⁺	January 2013 – May 2013
STAT 305: Engineering Statistics	January 2012 – May 2012

Teaching Assistant⁺⁺	August 2011 – December 2011
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- STAT 231: Engineering Probability
- STAT 105: Introduction to Engineering Statistics

Creator and Organizer⁺⁺	September 2015 – Present
Cloud Computing Working Group	

- Delivered tutorial seminars on Amazon Web Services and on-campus computing clusters.

Leadership

Computation Advisory Committee⁺⁺	September 2015 – Present
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Volunteer Instructor⁺	March 13, 2014
Office of Precollegiate Programs for Talented and Gifted (OPPTAG)	

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

Preparing Future Faculty Fellow⁺	August 2013 – June 2014
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⁺⁺ 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, predictive modeling, multivariate analysis, 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