William Michael Landau

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github.com/wlandau

Education		
PhD, Statistics, Iowa State University		2016
MS, Statistics, Iowa State University		2013
BS, Mathematics, University of Chicago		2011

Employment

Research Assistant[++]   **June 2013 – August 2016**
- Jointly developed a fully Bayesian method for analyzing high-dimensional genomic datasets.
- Authored R packages fbseq and fbseqCUDA, which use GPU computing to accelerate a Markov chain Monte Carlo routine.
- 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 – December 2016**
Cloud Computing Working Group
- Presented and coordinated tutorial seminars on cloud computing services and on-campus computing clusters.

Computation Advisory Committee[++]   **September 2015 – May 2016**
- Helped devise computing policies and make resource management decisions for the department.

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 (Ames, IA)
[+] Iowa State University (Ames, IA)

Boxing Club Assistant Coach[+]   **August 2012 – December 2013**

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

Computing
- R, R package development, Rcpp, C/C++, Fortran, GPU computing, CUDA C/C++, MPI, shell scripting, Python, JavaScript

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

References   **Jarad Niemi**   niemi@iastate.edu
- PhD advisor and major professor

Dan Nettleton   dnett@iastate.edu
- Lead principal investigator of the RNA-sequencing data analysis working group, my research team at Iowa State.

Peng Liu   pliu@iastate.edu
- MS advisor and major professor

Additional references available on request.

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