

William Michael Landau

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

Education

PhD, Statistics

Expected May 2016

- Iowa State University, Ames, IA

MS, Statistics

May 2013

- Iowa State University, Ames, IA
- Creative component: **W. M. Landau** and P. Liu. Dispersion Estimation and its Effect on Test Performance in RNA-seq Data Analysis: A Simulation-Based Comparison of Methods. *PLOS One*, 8(12). December 2013.

BS, Statistics

June 2011

- University of Chicago, Chicago, IL

Articles

- **W. M. Landau** and P. Liu. Dispersion Estimation and its Effect on Test Performance in RNA-seq Data Analysis: A Simulation-Based Comparison of Methods. *PLOS One*, 8(12). December 2013.
- B. J. Ratliff, Womack. C. C., X. N. Tang, **W. M. Landau**, L. J. Butler, and D. E. Szpunar. Modeling the Rovibrationally Excited C₂H₄OH Radicals from the Photodissociation of 2-Bromoethanol at 193nm. *Journal of Physical Chemistry*, 114(14): 493445, April 2010.

Posters

- **W. M. Landau** and P. Liu. Dispersion Estimation and its Effect on Test Performance in RNA-seq Data Analysis. Joint Statistical Meetings, 2013. Montreal, QC, Canada.

Employment

Research Assistant

June 2013 – present

- Jointly formulated a hierarchical model to data from gene experiments studying hybrid vigor.
- Fit the model with a Markov Chain Monte Carlo procedure, accelerated with parallel computing and graphics processing units (GPUs).

Lecturer
GPU Computing Seminar Series

August 2013 – December 2013
August 2012 – December 2012

- Constructed a high-performance computing seminar series publicly accessible at <http://will-landau.com/gpu/>

Course Instructor
STAT 305: Engineering Statistics

January 2013 – May 2013
January 2012 – May 2012

Teaching Assistant
STAT 231: Engineering Probability
STAT 105: Introduction to Engineering Statistics

August 2011 – December 2011

Leadership

Preparing Future Faculty Program

August 2013 – present

- Completed supplemental training courses in teaching, research writing, and applying for academic positions.

Assistant Coach
Iowa State University Boxing Club

August 2012 – December 2013

- Led and jointly planned beginner boxing classes of roughly seventy participants.
- Individually coached beginner and competitive college boxers.
- Cornerman in local fights in Davenport and Cedar Rapids, IA, in 2013.
- Created improved membership and financial bookkeeping systems.

Volunteer Guest Lecturer
Investigation Series

March 13, 2014

Office of Precollegiate Programs for Talented and Gifted (OPPTAG)

- Created and led an educational game simulating the Monty Hall problem for middle school students in the community of Ames, IA.

Computer Languages

Programming

- Significant experience with R, C/C++, CUDA C/C++, Bash, Python.
- Some experience with SAS, SQL, AWK, Haskell, JavaScript, Fortran.

Markup

- Significant experience with LaTeX, knitr, HTML, CSS.
- Some experience with Markdown, RMarkdown, XML.

References

Jarad Niemi

Assistant Professor

- PhD major professor at Iowa State University.
- niemi@iastate.edu

Peng Liu

Associate Professor

- MS major professor at Iowa State University.
- pliu@iastate.edu
- 515-294-7806

Additional references available on request.