

William Michael Landau

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Education

PhD, Statistics, expected May 2016
Iowa State University, Ames, IA
Cumulative GPA: 3.87/4.00

Master of Science, Statistics, May 2013
Iowa State University, Ames, IA
Cumulative GPA: 3.90/4.00

Bachelor of Science, Mathematics, June 2011
University of Chicago, Chicago, IL
Cumulative GPA: 3.69/4.00

Research

Research Assistant	RNA-seq Research Group Dept. of Statistics Iowa State University	Jun 2013 – Aug 2013
	<ul style="list-style-type: none">• Implemented a GPU-accelerated Markov Chain Monte Carlo procedure to fit a hierarchical model to RNA sequencing datasets.	
Master's Student	Dept. of Statistics Iowa State University	Jun 2011 – Jun 2013
	<ul style="list-style-type: none">• Wrote a creative component to compare methods of analyzing RNA sequencing data.• Created and presented a poster of the above at the 2013 Joint Statistical Meetings in Montreal, QC, Canada.	

Teaching

Lecturer	GPU Computing Subgroup Statistical Computing Research Group Dept. of Statistics Iowa State University	Aug 2013 – Dec 2013 Aug 2012 – Dec 2012
	<ul style="list-style-type: none">• Created and delivered weekly talks on statistical computing with Graphics Processing Units (GPUs) to graduate students and faculty.	

Course Instructor	STAT 305: Engineering Statistics Dept. of Statistics Iowa State University	Jan 2013 – Dec 2013 Jan 2012 – Dec 2012
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- Planned and delivered bi-weekly lectures to classes of 60 students.
- Wrote homework and tests, proctored and graded tests.
- Held 2 office hours per week.

Teaching Assistant	STAT 231: Engineering Probability STAT 105: Intro to Engineering Statistics Dept. of Statistics Iowa State University	Aug 2011 – Dec 2011
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- Wrote homework solutions.
- Graded homework.
- Held 2 office hours per week.

Leadership

Preparing Future Faculty Program	Iowa State University	Aug 2013 – Present
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- Completed courses that offer supplemental training in teaching, research writing, and applying for academic positions.

Assistant Boxing Coach	Iowa State University Boxing Club	Aug 2012 – Dec 2013
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- Led and jointly planned beginner boxing classes of roughly 70 participants.
- Individually coached beginner and competitive college boxers.
- Created membership and financial bookkeeping systems.

Awards

Vince Sposito Computing Excellence Award	Dept. of Statistics Iowa State University	Aug 2013
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- Awarded for service in statistical computing while working toward a graduate degree.

GSK Scholar Award	Dept. of Statistics Iowa State University	Sep 2011
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- Awarded jointly by GlaxoSmithKline and the Iowa State University Department of Statistics for a strong undergraduate record and an interest in biostatistics.

Alumni Scholarship	Dept. of Statistics Iowa State University	Sep 2011
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- Awarded for a strong application for graduate study.

Publications

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 193 nm. *Journal of Physical Chemistry*, 114(14):4934–45, April 2010.

Posters

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

Computer languages

Programming	R, C/C++, CUDA C/C++, Bash, Python, SAS, AWK, SQL, Haskell, Fortran.
Markup	LaTeX, HTML, CSS, Markdown, XML, RMarkdown.

References

Prof. Jarad Niemi niemi@iastate.edu	Dept. of Statistics Iowa State University	PhD Major Professor Spring 2014 – Present
Prof. Peng Liu pliu@iastate.edu 515-294-7806	Dept. of Statistics Iowa State University	Master's Degree Major Professor Summer 2012 – Spring 2013