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|  |  | William Michael Landau  3211 Snedecor Hall [landau@iastate.edu](mailto:landau@iastate.edu)  Iowa State University <http://www.will-landau.com/>  Ames, IA 50011 <http://github.com/wlandau/>  201-563-4325 |
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| **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, Mathematics June 2011  * University of Chicago, Chicago, IL |
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| 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. |
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| Posters |  | * **W. M. Landau** and J. Niemi. A Fully Bayesian Hierarchical Modeling Strategy for Identifying Gene Expression Heterosis using Parallel Computing with Graphics Processing Units (GPUs). Conference on Applied Statistics in Agriculture, Kansas State University, 2015. (Similar poster presented at the Joint Statistical Meetings in Boston, MA in 2014.) * **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. |
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| **Employment** |  | Research Assistant June 2013 – present Iowa State University Department of Statistics   * Developing a fully Bayesian approach for detecting important genes in high-dimensional genomic datasets. * Implementing with high-performance parallel computing using CUDA graphics processing units. * NIH grant number R01GM109458. |
|  |  | Research Assistant August 2013 – December 2013GPU Computing Seminar Series August 2012 – December 2012 Iowa State University Department of Statistics  Planned and delivered a high-performance computing seminar series publicly accessible at <http://will-landau.com/gpu/>. |
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|  |  | Course Instructor January 2013 – May 2013STAT 305: Engineering StatisticsIowa State University Department of Statistics |
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|  |  | Teaching Assistant August 2011 – December 2011STAT 231: Engineering ProbabilitySTAT 105: Introduction to Engineering Statistics Iowa State University Department of Statistics |
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| **Leadership** |  | Creator and organizer September 2015 – PresentCloud Computing Working Group Iowa State University Department of Statistics   * Delivered and scheduled talks introducing graduate students and faculty to cloud computing with Amazon Web Services. |
|  |  | Preparing Future Faculty Fellow August 2013 – June 2014Preparing Future Faculty ProgramCompleted supplemental courses and workshops in teaching. |
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|  |  | Volunteer Instructor March 13, 2014Investigation Series 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. |
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|  |  | Assistant Coach August 2012 – December 2013Iowa State University Boxing Club  * Led and jointly planned a beginner boxing course for roughly 70 participants. * Individually coached beginner and competitive college boxers. |
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| **Computer Languages** |  | Programming  * Significant experience with R, C/C++, CUDA C/C++, and shell scripting. * Some experience with Python, SAS, SQL, AWK, Haskell, JavaScript, and Fortran.  Markup  * Significant experience with LaTeX, Markdown, R Markdown, knitr, HTML, and CSS. * Some experience with XML. |
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| **References** |  | Jarad NiemiAssistant Professor  * PhD major professor at Iowa State University. * [niemi@iastate.edu](mailto:niemi@iastate.edu)  Peng LiuAssociate Professor  * MS major professor at Iowa State University. * [pliu@iastate.edu](mailto:pliu@iastate.edu) * 515-294-7806  Additional references available on request |