

Luca Weihs

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Education

2013 - Current **University of Washington, Seattle**
PhD, Statistics, expected April 2018
Advisor: Mathias Drton

2009 - 2013 **University of California, Berkeley**
BA, Mathematics
Minor, Computer Science

Employment

6/16 - Present, **University of Washington, Seattle**
9/15 - 3/16, *Teaching and Research Assistant*
9/14 - 6/15,
6/13 - 9/13

3/16 - 6/16, **Allen Institute for Artificial Intelligence, Seattle**
6/15 - 8/15 *Research Intern*

6/14 - 8/14 **ClearSlide inc., San Francisco**
Data Science Intern

Publications

2017 **Determinantal Generalizations of Instrumental Variables**
Weihs, Robinson, et. al
arXiv preprint

Marginal likelihood and model selection for Gaussian latent tree and forest models
Drton, Lin, Weihs and Zwiernik
Bernoulli, 23(2):1202-1232, 05

2016 **Large-Sample Theory for the Bergsma-Dassios Sign Covariance**
Nandy, Weihs and Drton
Electronic Journal of Statistics, 10(2):2287-2311

Generic Identifiability of Linear Structural Equation Models by Ancestor Decomposition
Drton and Weihs
Scandinavian Journal of Statistics, 43:1035-1045

Efficient Computation of the Bergsma-Dassios Sign Covariance
Weihs, Drton and Leung
Computational Statistics, 31(1):315-328

Open Source Software

Language(s)	Software
R	SEMID: Parameter Identifiability in Linear Structural Equation Models https://github.com/Lucaweihs/SEMID
R, C++	TauStar: Efficient Computation and Testing of the Bergsma-Dassios Sign Covariance https://github.com/Lucaweihs/TauStar
R, C++	SBIC: Computing the Singular BIC for Multiple Models https://github.com/Lucaweihs/sBIC
R, C++	RIM: Inference with Recursive Inversion Models https://github.com/Lucaweihs/RIM
Python	Impact-Prediction: Predicting Author H-index and Paper Citation Counts https://github.com/Lucaweihs/impact-prediction

Talks

2017	Combinatorial Conditions for Generic Identification in Structural Equation Models AMS Special Session on Gaussian Graphical Models and Combinatorial Algebraic Geometry <i>Joint Mathematics Meetings</i> in Atlanta, GA
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Awards

2013	Departmental Citation (Valedictorian Award) <i>University of California, Berkeley</i> Department of Mathematics Percy Lionel Davis Award <i>University of California, Berkeley</i> Department of Mathematics
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