OSCAR HERNAN MADRID PADILLA

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(This version: *April*12, 2018)

EMPLOYMENT

Neyman Visiting Assistant Professor
University of California–Berkeley — July 2017–Present

EDUCATION

Ph.D., Statistics, The University of Texas at Austin — 2013 - - May 2017
Advisor: James G. Scott
GPA : 3.92/4

Bachelor in Mathematics, Universidad de Guanajuato — 2009-2013
GPA : 9.84/10

PUBLICATIONS

"Sequential nonparametric tests for a change in distribution: an application to large-scale radiological survey." **Oscar-Hernan Madrid-Padilla**, Alex Athey, Reinhart, and James G.Scott. **Journal of the American Statistical Association (Just Accepted)**

"The DFS Fused Lasso: Linear-Time Denoising over General Graphs." **Oscar-Hernan Madrid-Padilla**, James G. Scott, James Sharpnack, and Ryan Tibshirani. ***To appear in Journal of Machine Learning Research.*** 2018.

Oscar-Hernan Madrid-Padilla, James G. Scott. ***To appear in Journal of Computational and Graphical Statistics.*** 2017.

"Priors for Random Count Matrices Derived from a Family of Negative Binomial Processes." Mingyuan Zhou, **Oscar-Hernan Madrid-Padilla**, and James G. Scott. ***Journal of the American Statistical Association 2016, Vol. 111, No. 515, 1144-1156, Theory and Methods.***

"Vector-space markov random fields via exponential families." Wesley Tansey, **Oscar-Hernan Madrid-Padilla**, Arun Sai Suggala, Pradeep Ravikumar. ***Proceedings of the The 32nd International Conference on Machine Learning.*** 2015.

"Worst case portfolios of dynamic monetary utility functions." Daniel Hernandez Hernandez, **Oscar-Hernan Madrid-Padilla**. ***To appear in Stochastics***

PAPERS UNDER REVIEW

"A deconvolution path to mixtures." **Oscar-Hernan Madrid-Padilla**, Nicholas Polson, and James G. Scott. ***http://arxiv.org/abs/1511.06750.*** **Invited revision**

"Nonparametric density estimation by histogram trend filtering." **Oscar-Hernan Madrid-Padilla**, James G. Scott. ***http://arxiv.org/abs/1509.04348.*** 2015.

TEACHING

Instructor, at University of California, Berkeley:

Linear Models, Fall 2017.
My Instructor Rating: 5.6 out of 7.
Department average : 5.0 out of 7.

Class size: 71.
Game Theory, Spring 2018.

Teaching Assistant, at The University of Texas at Austin, for the following courses:

Introduction to Probability and Statistics.
Time Series.
Bayesian Statistics.
Statistical Modeling.
Experiments Design.
Statistics and Market Analysis.
Statistical models for big data.

Teaching Assistant, at The Universidad de Guanjuato, for:

Measure Theory.
Advanced Probability.
Calculus.
Real Analysis.
Topology.

Mathematics instructor for high school students in Guanajuato, Mexico, 2011-2013.

AWARDS

- Dissertation Fellowship, The University of Texas at Austin.
  Spring 2017.
- Graduate School Fellowship, The University of Texas at Austin.
  Summer 2016.
- Bonus Fellowship for Continuing Students, The University of Texas at Austin.
  2015.
- Research assistant scholarship, CIMAT.
  2012-2013.
- Best grades average of the bachelor degree in Mathematics, Universidad de Guanajuato.
  2011-2012.
- Excellence Scholarship, Mathematical Research Center (CIMAT, Mexico).
  2009-2013.
- Fourth absolute place at the Fermat Mathematical Contest, Mexico 2008.
- Honorable mention, Ibero–American Mathematical Olympiad.
  2009.
- Honorable mention, International Mathematical Olympiad.
  2008.

TALKS

- The DFS Fussed Lasso: Linear Time Denoising over General Graphs. Biostat Seminar. University of California, Berkeley. March 2018.
- The DFS Fussed Lasso: Linear Time Denoising over General Graphs. Yu Group. University of California, Berkeley. November 2017.
- The DFS Fussed Lasso: Linear Time Denoising over General Graphs. SLAB LAB SEMINAR. University of Washington. March 2017.
- The DFS Fussed Lasso: Linear Time Denoising over General Graphs. STATISTICS SEMINAR. The Department of Statistical Science, Cornell University. February 2017.

- The DFS Fussed Lasso: Linear Time Denoising over General Graphs. SEMINAR SERIES. Department of Statistics and Data Sciences, The University of Texas at Austin. October 2016.
- Worst case portfolios of dynamic monetary utility functions. XLV Congress of the Mexican Mathetamatical Society. 2012.

Editorial service *Reviewer for*: Journal of the American Statistical Association, Journal of Computational and Graphical Statistics, IEEE Transactions on Signal and Information Processing over Networks.