Sameer K. Deshpande

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CONTACT

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RESEARCH INTERESTS

Bayesian hierarchical modeling. Model selection. Causal inference. Applications in public health and sports.

EMPLOYMENT

Massachusetts Institute of Technology, CSAIL, 2018 – present
Postdoctoral Fellow
Supervisor: Tamara Broderick

EDUCATION

University of Pennsylvania, The Wharton School, Philadelphia, PA
Ph.D. Statistics, May 2018
Thesis Title: "Bayesian Model Selection and Estimation without MCMC"
Thesis Supervisors: Ed George and Veronika Ročková

Massachusetts Institute of Technology, Cambridge, MA
S.B. Mathematics, June 2013

PUBLICATIONS

Deshpande, S.K., Ročková, V., George, E.I. (2019) "Simultaneous variable and covariance selection with the multivariate spike-and-slab Lasso." *Journal of Computational and Graphical Statistics* (accepted). [arXiv:1708.08911]

Deshpande, S.K. and Wyner, A.J.(2017). "A hierarchical Bayesian model of pitch framing." *Journal of Quantitative Analysis of Sports.* 13(3): 95 – 112. **Editor's Choice article**. [arXiv:1704.00823]

Deshpande, S.K., Hasegawa, R.B., Rabinowitz, A.R., Whyte, J., Roan, C.L., Tabatabaei, A., Baiocchi, M., Karlawish, J.H., Master, C.L., and Small, D.S. (2017). "Association of Playing High School Football With Cognition and Mental Health Later in Life." *JAMA Neurology.* 74(8): 909–918.

Deshpande, S.K. and Jensen, S.T. (2016). "Estimating an NBA player's impact on his team's chances of winning," *Journal of Quantitative Analysis of Sports.* 12(2): 51 – 72. **Editor's Choice article**. [arXiv:1604.03186]

PREPRINTS

Deshpande, S.K., Hasegawa, R.B., Weiss, J., Small, D.S. (2018+). "The association between football participation in adolescence and mental health in early adulthood." (submitted)

Hasegawa, R.B, **Deshpande, S.K.**, Rosenbaum, P.R., Small, D.S. (2017). "Causal inference with two versions of treatment." (submitted). [arXiv:1705.03918]

HONORS & AWARDS

Third Prize, Ruth and William Silen, M.D. Poster Award (2019)

Finalist, National Football League Big Data Bowl (2019)

Travel Awards: O'Bayes (2017), BNP12 (2019), O'Bayes (2019)

J. Parker Bursk Memorial Award for excellence in research, Statistics Department, Wharton. (2017)

Deming Student Scholar Award, Deming Conference on Applied Statistics. (2017)

Donald S. Murray Prize for excellence in teaching, Statistics Department, Wharton (2016)

Wharton Doctoral Program Fellowship, Wharton (2013).

TEACHING

University of Pennsylvania

STAT 621: *Accelerated Regression Analysis for Business* Teaching Assistant. Fall 2016, 2017.

STAT 613: *Regression Analysis for Business*. Teaching Assistant. Fall 2014, 2015, 2017.

STAT 431: *Statistical Inference*. Teaching Assistant. Spring 2016.

STAT 432: *Mathematical Statistics*. Teaching Assistant. Spring 2015.

Massachusetts Institute of Technology

18.05: *Introduction to Probability and Statistics*. Spring 2013.

INVITED TALKS

Estimating the health consequences of playing football using observational data: challenges, lessons learned, and new directions. JSM 2019. (*upcoming*).

Estimating the health consequences of playing football using observational data: challenges, lessons learned, and new directions. NESS 2019. (*upcoming*).

Estimating the health consequences of playing football: evidence from observational studies. CMU Sports Analytics Conference 2018.

Simultaneous variable and covariance selection with the multivariate spike-and-slab LASSO, ISBA World Meeting 2018.

Simultaneous variable and covariance selection with the multivariate spike-and-slab LASSO, Eco Sta 2018.

Simultaneous variable and covariance selection with the multivariate spike-and-slab LASSO, BayesComp 2018.

Simultaneous variable and covariance selection with the multivariate spike-and-slab LASSO, CMStatistics 2017.

CONTRIBUTED TALKS

Approximate Multiple Shrinkage for Clustered Regression. BNP 2019. (*upcoming*).

Bayesian spatial clustering with particle optimization, JSM 2018.

Simultaneous variance and covariance selection with the multivariate spike-and-slab LASSO, JSM 2017.

A hierarchical model of pitch framing, JSM 2016

A hierarchical model of pitch framing, NESSIS 2015

Estimating an NBA player's impact on his team's chances of winning, JMM 2015

Estimating an NBA player's impact on his team's chances of winning, JSM 2014

SERVICES

Journal Reviewer: Annals of Applied Statistics, The American Statistician, Journal of Computational and Graphical Statistics, Bayesian Analysis, Journal of Quantitative Analysis of Sport, PLoS One

Conference Reviewer: BNP @ NeurIPS 2018, AISTATS 2019, ICML 2019