

# Sameer K. Deshpande

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Email: sameerd@alum.mit.edu  
Website: <http://people.csail.mit.edu/sameerd/>
- RESEARCH INTEREST** Bayesian hierarchical modeling. Model selection. Causal inference. Applications in public health and sports.
- EMPLOYMENT** **Massachusetts Institute of Technology**, 2018 – present  
*Postdoctoral Fellow*  
CSAIL
- 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
- 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)
- Deshpande, S.K.**, Ročková, V., George, E.I. (2017) “Simultaneous variable and covariance selection with the multivariate spike-and-slab Lasso.” (accepted). [arXiv:1708.08911]
- Hasegawa, R.B, **Deshpande, S.K.**, Rosenbaum, P.R., Small, D.S. (2017). “Causal inference with two versions of treatment.” (submitted). [arXiv:1705.03918]
- PUBLICATIONS** **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]
- HONORS** 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: 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, Bayes Comp 2018.

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

**CONTRIBUTED  
TALKS**

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