

## Iavor Bojinov

Phone: 617 909 5589

E-mail: iav.bojinov@gmail.com

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### Professional Experience

AUG 2019 – PRESENT

Harvard Business School  
*Assistant Professor, Technology and Operations Management*

JUNE 2018 – AUG 2019

LinkedIn  
*Data Scientist*

MAY 2017 – AUG 2017

LinkedIn  
*Software Engineer, Intern*

MAY 2016 – AUG 2016

Google  
*Quantitative Analyst, Intern*

### Education

**Harvard University,** Cambridge, MA  
*Ph.D., Statistics, May 2018*

Thesis: “Diagnostics tools in missing data and time series experiments”

*Masters of Science, Statistics, May 2016*

**King’s College London,** London, UK  
*Masters of Science, Mathematics, May 2013*

Thesis: “Alternative methods for time series analysis”

### Honors and Fellowships

2017 Bok Center Teaching Award  
2016 Pickard Teaching Award  
Bok Center Teaching Award  
2015 FRF Statistics Grant  
Bok Center Teaching Award  
2013 The Drew Medal & Prize  
The Jelf Medal  
Layton Science Research Award  
2012 EPSRC Research Grant

### Research

#### Publications

Bojinov I., Pillai N., and Rubin D. (2019). Diagnosing missing always at random in multivariate data. *Biometrika*. (Accepted)

Bojinov, I., and Shepherd, N. (2019). Time series experiments and causal estimands: exact randomization tests and trading. *Journal of the American Statistical Association*, p. 1-36.

Hollenbach F., Bojinov I., Minhas S., Metternich N., Ward M., and Volfovsky A. (2018). “Multiple imputation using Gaussian copulas *Sociological Methods & Research*, p.0049124118799381.

Bojinov I., and Bornn L. (2016). The pressing game: Optimal defensive disruption in

soccer. *Proceedings of MIT Sloan Sports Analytics.*

### Under Review

Bojinov, I., Tu, Y., Liu, M. and Xu, Y., 2019. Causal inference from observational data: Estimating the effect of contributions on visitation frequency at LinkedIn. arXiv preprint arXiv:1903.07755.

### Working Papers

Bojinov I. (2019+). Diagnostics tools for missing data: A guide through the jungle.

Basse, G., and Bojinov I. (2019+). A general theory of identification.

Wu A., Basse, G., Bojinov I., and Airoidi, E. (2019+). The potential bias from ignoring neighborhood covariates in observational studies on networks.

### Talks

CHICAGO BOOTH SCHOOL OF BUSINESS, 2019

*Humans vs. Machine: Time Series Experimentation for Causal Inference with Application to Trading Futures Contracts.*

FOX SCHOOL OF BUSINESS, 2018

*Time series experiments and causal estimands*

CONFERENCE ON DIGITAL EXPERIMENTATION, 2018

*Time series experiments and causal estimands: Exact randomization tests and trading*

ICSA APPLIED STATISTICS SYMPOSIUM, 2017

*Diagnosing missing always at random in multivariate data*

MIT SLOAN SPORTS ANALYTICS CONFERENCE, 2016

*The pressing game: Optimal defensive disruption in soccer*

JOINT STATISTICAL MEETING, 2016

*Diagnostics tools for missing data: A guide through the jungle*

NEW ENGLAND SYMPOSIUM ON STATISTICS IN SPORTS, 2015

*Optimal defensive strategies and disrupting passing networks in soccer*

ATLANTIC CAUSAL INFERENCE CONFERENCE, 2015

*Diagnostic tools in missing data*

### Teaching Experience

#### Guest Lectures & Workshops

Katz Graduate School of Business, 2019

*The value of experimentation in firms*

Open Data Science Conference, 2018

*Mastering experimentation workshop*

The Fuqua School of Business, 2018

*A/B testing as scale*

#### Pedagogy Teaching Fellow

2017-18 The Art and Practice of Teaching

#### Instructor

2015-16 Reading Group for Colloquium Seminar

2014-15 Reading Group for Colloquium Seminar

#### Teaching Fellow

Spring 2017	Generalized Linear Models*
Fall 2016	Statistical Sleuthing Through Linear Models*
Spring 2016	Probability II for Graduate Students: Martingales and Stochastic Calculus*
Spring 2016	Junior Tutorial In Statistics*
Spring 2015	Introduction to Stochastic Process
Fall 2014	Introduction to Probability
Summer 2014	Introduction to Quantitative Method
Fall 2013	Abstract Algebra

\* Received Certificate of Distinction in Teaching Awards

**Software**

Languages

R, PYTHON, SPARK, SCALA, PIG

R packages

DIAGMAAR: An R package for diagnostic tools for missing data

GCIMP: An R package for generating multiple imputations using a Gaussian copula

**Referee/Reviewer**

Journal of the American Statistical Association, Annals of Applied Statistics, Biometrika, Journal of the Royal Statistical Society (Series A and B), Statistical Science, SIAM Journal of Mathematics of Data Science, International Conference on Machine Learning (2018, 2019), Neural Information Processing Systems (2018, 2019)