



05/28/2024

Iavor Bojinov

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EDUCATION

- 2018 Ph.D., Statistics, Harvard University, Cambridge, MA
Dissertation: Diagnostic Tools in Missing Data and Time Series Experiments
- 2016 M.S., Masters of Science, Statistics, Harvard University, Cambridge, MA
- 2013 M.Sci., Masters of Science, Mathematics, King's College, London, London, UK
Dissertation: Alternative Methods for Time Series Analysis

HARVARD UNIVERSITY

Appointments

- 8/01/2019 – present Assistant Professor of Business Administration
- 8/01/2020 – present Faculty Affiliate of the Harvard Statistic Department.

Assignments

- 2023 – Present Data Science for Managers, MBA Required Course, Fall
- 2022 – Present Co-PI, Data Science & Artificial Intelligence Operations Lab
- 2022 – Present Competing in the Age of AI, Executive Education
- 2022 – 2022 Global Research Fellow
- 2021 – Present Richard Hodgson Fellow
- 2021 – Present Affiliate Faculty, Harvard Data Science Initiative
- 2021 – Present Data Science Pipeline and Critical Thinking for Fidelity, Executive Education
- 2021 – Present HBAP Data Science Pipeline and Critical Thinking, Executive Education
- 2021 – 2022 Data Science for Managers, 1st Year Elective Course, Fall
- 2021 – 2022 Data Science for Managers, MBA Elective Course, Fall

2020 – 2021 Introduction to Data Science, 1st Year Elective Course, Spring
2019 – 2020 Technology and Operations Management, MBA Required Course, Fall

WORK EXPERIENCE

2022 – Present Associate Editor, Harvard Data Science Review, Cambridge, MA
2022 – Present Associate Editor, ACM / IMS Journal of Data Science, Cambridge, MA
2018 – 2019 Data Scientist, LinkedIn, Mountain View, CA

AWARDS AND HONORS

2024 – Apgar Award for Innovation in Teaching
2022 – Global Research Fellow
2021 – The Richard Hodgson Fellow
2017 – Bok Center Teaching Award
2016 – Pickard Teaching Award
2016 – Bok Center Teaching Award
2015 – FRF Statistics Grant
2015 – Bok Center Teaching Award
2013 – The Drew Medal & Prize
2013 – The Jelf Medal
2013 – Layton Science Research Award
2012 – EPSRC Research Grant

PUBLICATIONS

Peer-reviewed Publications

Han, K. W., Basse, G., and Bojinov, I. (2024). Population Interference in Panel Experiments. *Journal of Econometrics*, 238(1), 105565.

Bojinov, I., Simchi-Levi, D., and Zhao, J. (2023). Design and Analysis of Switchback Experiments. *Management Science* 69 (7), 3759-3777.

Li, Y., Mao, J., and Bojinov, I. (2023). Balancing Risk and Reward: An Automated Phased Release Strategy. *Advances in Neural Information Processing Systems*, 36.

Rajkumar K., Saint-Jacques G., Bojinov I., Brynjolfsson E., and Aral S. (2022). A Causal Test of the Strength of Weak Ties. *Science* 377.6612: 1304-1310.

Menchetti, F., and Bojinov, I. (2022). Estimating Causal Effects in the Presence of Partial Interference using Multivariate Bayesian Structural Time Series Models. *Annals of Applied Statistics* 16, no. 1: 414435.

Bojinov, I., Rambachan, A., and Shephard, N. (2021) Panel Experiments and Dynamic Causal Effects: A Finite Population Perspective. *Quantitative Economics* 12, no. 4: 11711196.

Hollenbach F., Bojinov I., Minhas S., Metternich N., Ward M., and Volfovsky A. (2021). Multiple Imputation Using Gaussian Copulas. *Sociological Methods & Research*, 50, no. 3: 12591283.

Bojinov I., Pillai N., and Rubin D. (2019). Diagnosing Missing Always at Random in Multivariate Data. *Biometrika*, 107 (1), 246-253.

Bojinov, I., and Shepherd, N. (2019). Time Series Experiments and Causal Estimands: Exact Randomization Tests and Trading. *Journal of the American Statistical Association*, 14(528), 1665-1682.

Bojinov I., and Bornn L. (2016). The Pressing Game: Optimal Defensive Disruption in Soccer. *Proceedings of MIT Sloan Sports Analytics*.

Peer-reviewed General Audience Publications

Bojinov I. and Gupta S. (2022) Online Experimentation: Benefits, Operational and Methodological Challenges, and Scaling Guide. *Harvard Data Science Review*, 4(3).

Bojinov, I., Chen, A., and Liu, M. (2020). The Importance of Being Causal. *Harvard Data Science Review* 2(3).

General Audience Publications

Bojinov, I. (2023) Keep Your AI Projects on Track. *Harvard Business Review* 101, (6): 5359.

Bojinov, I., Ciubotariu N., and Loflin B. (2023) Revolutionary Technology How Boards Can Learn from Emerging Innovation. *Nasdaq Center for Board Excellence*.

Bojinov I., Rajkumar K., Saint-Jacques G., Brynjolfsson E., and Aral S. (2022). Which Connections Really Help You Find a Job? *Harvard Business Review Online*.

Bojinov, I., Saint-Jacques, G., and Tingley, M., (2020) Avoid the Pitfalls of A/B Testing, *Harvard Business Review* 98 (2), 48-53.

Cases, notes, teaching notes:

Bojinov, I., Parzen, M. and Hamilton P. "On Ramp to Crypto," Harvard Business School Case 623-040 (2022) [24p].

Bojinov, I., Iansiti, M., and Neel, S., “Data Privacy in Practice at LinkedIn,” Harvard Business School Case 623-024 (2022) [17p].

Bojinov, I., Parzen, M. and Hamilton P. “Causal Inference,” Harvard Business School Module Note 622-111, (2022) [10p].

Bojinov, I., Parzen, M. and Hamilton P. “Prediction & Machine Learning,” Harvard Business School Module Note 622-101, (2022) [44p].

Bojinov, I., Parzen, M. and Hamilton P. “Linear Regression,” Harvard Business School Module Note 622-100, (2022) [18p].

Bojinov, I., Parzen, M. and Hamilton P. “Statistical Inference,” Harvard Business School Module Note 622-099, (2022) [20p].

Bojinov, I., Parzen, M. and Hamilton P. “Exploratory Data Analysis,” Harvard Business School Module Note 622-098, (2022) [28p].

Bojinov, I., and Parzen M., “Data Science at the Warriors,” Harvard Business School Case 622-048 (2021) [10p].

Bojinov, I., Iansiti M., and Lane D., “Orchadio’s First Two Split Experiments,” Harvard Business School Case 622-015 (2021) [14p].

Choudhury, P., Bojinov, I., and Salomon, E., “Creating a Virtual Internship at Goldman Sachs,” Harvard Business School Case 621-035 (2020) [16p].

Bojinov, I., and Lakhani, K. R., “Experimentation at Yelp,” Harvard Business School Case 621-064 (2020) [20p].

Bojinov, I., Farronato, C., Grushka-Cockayne, Y., Shih, W. C., and Toffel, M. W, “Comparing Two Groups: Sampling and t-Testing” Harvard Business School Technical Note 621-044 (2020) [11p].

Working Papers

DiSorbo M., Bojinov I., and Menchetti F. Winner Take All: Exploiting Asymmetry in Factorial Designs.

Liang, B., and Bojinov, I. An Experimental Design for Anytime-Valid Causal Inference on Multi-Armed Bandits. *arXiv preprint arXiv:2311.05794*.

Ni, T., Bojinov, I., and Zhao, J. Design of Panel Experiments with Spatial and Temporal Interference. Available at SSRN 4466598.

Woong Ham, D., Lindon, M., Tingley, M., and Bojinov, I. Design-Based Confidence Sequences: A General Approach to Risk Mitigation in Online Experimentation. *Management Science* (R&R)

Ham, D. W., Bojinov, I., Lindon, M., and Tingley, M. Design-Based Inference for Multi-arm Bandits. *arXiv preprint arXiv:2302.14136*.

Yue, D., Hamilton, P., and Bojinov, I. Nailing Prediction: Experimental Evidence on the Value of Tools in Predictive Model Development. *Management Science* (R&R)

Lindon, M., Ham, D. W., Tingley, M., and Bojinov, I. Anytime-Valid Inference in Linear Models and Regression-Adjusted Causal Inference. *arXiv preprint arXiv:2210.08589*.

Mao, J. and Bojinov, I. Quantifying the Value of Iterative Experimentation. *arXiv preprint arXiv:2111.02334*.

Prithwiraj C., Lane J., and Bojinov I. Virtual Watercoolers: A Field Experiment on Virtual Synchronous Interactions and Performance of Organizational Newcomers. *Harvard Business School Technology & Operations Mgt. Unit Working Paper*, (21-125).

Basse, G., and Bojinov I. A General Theory of Identification. *arXiv preprint arXiv:2002.06041*.

PRESENTATIONS

“An Experimental Design for Anytime-Valid Causal Inference on Multi-Armed Bandits.”

ACIC, Annual Conference, Seattle, WA (May 2024)

MAD, Annual Conference, New York, NY (May 2024)

Invited Seminar, Yale Quantitative Research Methods Workshop, New Haven, CT (April 2024)

“Experimenting with Generative AI”

Invited Seminar, 3M, Minneapolis, MN (January 2024)

Invited Seminar, Warner Bros. Discovery, Los Angeles, CA (January 2024)

Invited Seminar, EY Tech Icons Council, Park City, UT (November 2023)

“Design-Based Confidence Sequences: A General Approach to Risk Mitigation in Experimentation”

INFORMS Annual Conference, Phoenix, AZ (October 2023)

Invited Seminar, Wharton School at University of Pennsylvania, OM (September 2023)

Invited Seminar, Duke University (March 2023)

CMSatistics Annual Conference, London, UK (December 2022)

Invited Seminar, LinkedIn, Virtual (December 2022)

“Keep Your AI Projects on Track”

Invited Seminar, Harvard Business School Alumni Association, London UK (November 2023)

Invited Seminar, EY Tech Icons Council, Miami, FL (January 2023)

Keynote, P&G Analytics Conference, Cincinnati, OH (December 2022)

- “Nailing Prediction: Evidence on the Value of Tools in Predictive Model Development”
MOM Annual Conference, Boston, MA (May 2023)
AI, Big Data and Policy Annual Workshop, Washington, DC (May 2023)
Harvard Business School, Junior Faculty Research Lunch (February 2023)
- “Design of Panel Experiments with Spatial and Temporal Interference”
ICODE Annual Conference, Memphis, TN (May 2023)
IMS Data Science Conference, Florence, IT (December 2022)
Invited Seminar, Harvard, Cambridge, MA (April 2022)
INFORMS Annual Meeting, Virtual, (October 2021)
- “Dynamic Experimentation”
Invited Seminar, Netflix, San Jose, CA (May 2023)
Split Flagship Annual Conference, Virtual, (March 2022)
- “A Balanced Design of Time Series Experiments”
NeurIPS Annual Conference Workshop, New Orleans, LA (November 2022)
- “The Design and Analysis of Switchback Experiments”
INFORMS Annual Conference, Indianapolis, IN (October 2022)
Invited Seminar, University of Florence, Florence, IT (June 2022)
Invited Seminar, Uber, Virtual (May 2022)
Invited Seminar, MIT Sloan School of Management, Cambridge, MA (April 2022)
Invited Seminar, Harvard, Cambridge, MA (March 2022)
Invited Seminar, LinkedIn, Virtual (October 2021)
Invited Seminar, CEMFI Econometrics Seminar, Virtual (November 2021)
- “The Importance of Being Causal: Building an observational study platform at LinkedIn”
Invited Seminar, DataIKU, Virtual (August 2022)
Causal Data Science Meeting Annual Conference, Virtual (November 2021)
- “A Causal Test of the Strength of Weak Ties”
Harvard Business School, Junior Faculty Research Lunch, Boston, MA (November 2021)
- “Quantifying the Value of Iterative Experimentation”
Keynote, Fidelity Investment Experimentation Summit, Virtual (2021)
- “Avoid the Pitfalls of A/B Testing”
Invited Seminar Discussant, Online Causal Inference seminar, Virtual (2020)
- “Estimating causal effects in the presence of partial interference using multivariate Bayesian structural time series models”
EuroCIM, Annual Conference, Virtual (April 2020)
- “The Challenges of A/B testing as scale”
Invited Seminar, The Fuqua School of Business at Duke University (June 2020)

“Panel Experiments and Dynamic Causal Effects: A Finite Population Perspective”
Invited Seminar, CMU-Pitt IT Economics Seminar, Virtual (2020)
Invited Seminar, Microsoft Experimentation, Virtual (2020)

“Time series experiments and causal estimands: Exact randomization tests and trading”
Invited Seminar, Harvard Business School, Boston, MA (January 2019)
Invited Seminar, Chicago Booth, Chicago, IL (January 2019)
JSM Annual Conference, Denver, CO (August 2019)
Invited Seminar, Fox School of Business at Temple University, Philadelphia, PA (May 2018)
CODE Annual Conference, Cambridge, MA (November 2018)

“Diagnosing missing always at random in multivariate data”
ICSA Applied Statistics Annual Conference, Chicago, IL (2017)
JSM Annual Conference, Chicago, IL (August, 2016)
ACIC Annual Conference, Philadelphia, PA (May, 2015)

PROFESSIONAL ACTIVITIES

Workshop & Conference Organization

Methodology, Organization, and Management (2021, 2022, 2023)

D³ Catalyst Event: Building Trust in the Age of AI (2023)

Software Packages

CausalMBSTS: An R package for Multivariate Time Series Models for Causal Inference and Forecasting.

diagMAAR: An R package for diagnostic tools for missing data.

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

Reviewer

Annals of Applied Statistics, Annals of Statistics, Biometrika, California Management Review, Management Science, SIAM Journal of Mathematics of Data Science, and Statistical Science. Econometrica, Journal of the American Statistical Association, Journal of Econometrics, Journal of the Royal Statistical Society (Series A and B), International Conference on Machine Learning, Manufacturing & Service Operations Management, Neural Information Processing Systems, Proceedings of the National Academy of Sciences, Organization Science, The American Statistician, The Econometrics Journal.

Appendix: List of Coauthors and Affiliations for Publications and Working Papers

Name	Position at Time of Collaboration	Current Position
Statistics/Economics		
Alexander Volfovsky	Post Doctoral Fellow, Harvard	Associate Professor, Duke
Ashesh Rambachan	Doctoral Student, Harvard	Assistant Professor, MIT
Donald Rubin	Professor, Harvard, Statistics	Professor Emeritus, Harvard
Fiammetta Menchetti	Doctoral Student, University of Florence	Assistant Professor, University of Florence
Guillaume Basse	Assistant Professor, Stanford	Quantitative Researcher at Citadel Securities
Luke Bornn	Assistant Professor, Harvard	Co-Founder/ Chief Scientist at Zelus Analytics
Natesh Pillai	Associate Professor, Harvard University	Professor, Harvard University
Neil Shepherd	Professor, Harvard University	
Management Science		
Erik Brynjolfsson	Professor, Stanford University	
Jackie Lane	Post Doctoral Fellow, Harvard	Assistant Professor, HBS
Jinglong Zhao	Doctoral Student, MIT	Assistant Professor, Boston University
David Simchi-Levi	Professor, MIT	
Prithwiraj Choudhury	Associate Professor, HBS	
Sinan Aral	Professor, MIT	
Political Science		
Florian M. Hollenbach	Assistant Professor, Texas A&M	Associate Professor, CBS, IEGB
Michael D. Ward	Professor, Duke University	Professor Emeritus, Duke University
Nils Metternich	Associate Professor University College London	Professor, University College London
Shahryar Minhas	Assistant Professor, Michigan State University	Associate Professor, Michigan State University
Doctoral Students		
Biyonka Liang	Doctoral Student, Harvard	
Daniel Yue	Doctoral Student, HBS	
David Ham	Doctoral Student, Harvard	
Karthik Rajkumar	Doctoral Student, Stanford	Data Scientists, LinkedIn
Kevin Han	Doctoral Student, Stanford	Data Scientists, Meta
Matt DosSantos DiSorbo	Doctoral Student, HBS	Data Scientists, Meta
Paul Hamilton	Doctoral Student, HBS	
Tu Ni	Doctoral Student, NUS	Post Doctoral Fellow, HBS
Yufan Li	Doctoral Student, Harvard	
Industry Collaborators		
Albert Chen	Staff Data Scientists, LinkedIn	Sr. Staff Data Scientists, LinkedIn
Guillaume Saint-Jacques	Data Scientists, LinkedIn	Senior Manager, Apple
Jialiang Mao	Data Scientists, LinkedIn	Staff Data Scientists, LinkedIn
Martin Tingley	Head of Experimentation, Netflix	
Michael Lindon	Data Scientists, Netflix	
Min Liu	Senior Data Scientists, LinkedIn	Research and Engineering Manager, LinkedIn
Somit Gupta	Principle Data Scientists, Microsoft	