

Jean Pouget-Abadie

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Education

Harvard University

PhD in Computer Science, advised by Edoardo M. Airoldi and Salil Vadhan

Committee: Edoardo M. Airoldi, David C. Parkes, Donald B. Rubin, Salil Vadhan.

Focus Areas: Causal Inference, Statistics, Stochastic Networks and Graph Algorithms.

Cambridge, MA

2014–2018

École Polytechnique

Diplôme d'ingénieur (MSci. equivalent)

Focus Areas: Mathematics (fundamental and applied), Machine Learning, Physics.

Paris, France

2011–2014

Research and Work Experience

Google

Research scientist, Algorithms & Optimization research group

– Research and publications on improving experimentation at Google.

– Work with Search Ads, Display Ads, and Shopping teams to improve metrics and measurements.

– Work on reserve price optimization in auctions for Display Ads.

– Development of new clustering algorithm for experimentation at Google.

New York City, NY

Fall 2018–present

Google

Research intern, Algorithms team. Host: Vahab Mirrokni

– Research on improving experimentation at Google.

New York City, NY

Fall 2017–Summer 2018

Spotify

Research intern, Music recommendation team

– Research on improving music recommendation at Spotify with the Discover Weekly team.

New York City, NY

Summer 2017

LinkedIn

Research visitor, Analytics team. Host: Ya Xu

– Research on improving experimentation at LinkedIn.

Sunnyvale, CA

Fall 2015–Spring 2017

Facebook

Research intern, Core Data Science Team. Host: Udi Weinsberg

– Research on improving user privacy at Facebook.

Menlo Park, CA

Summer 2015

MILA, Université de Montréal

Research intern, MILA. Host: Yoshua Bengio

– Research on neural networks for French-English translation.

– Research on neural network models for image generation.

Montréal, QC, Canada

Summer 2014

Publications and working papers

1: Goodfellow, I., Pouget-Abadie, J., Mirza, M., Bing, X., Warde-Farley, D., Ozair, S., Courville, A. and Bengio, Y. *Generative Adversarial Networks*, NeurIPS 2014.

2: Pouget-Abadie, J., Bahdanau, D., van Merriënboer, B., Cho, K., and Bengio, Y. *Overcoming the Curse of Sentence Length for Neural Machine Translation using Automatic Segmentation*, SSST-8@EMNLP 2014.

- 3: Pouget-Abadie, J., Horel, T. *Inferring Graphs from Cascades: A Sparse Recovery Framework*, ICML 2015.
- 4: Saveski, M., Pouget-Abadie, J., Duan, W., Ghosh, S., Xu, Ya, Airoidi, E. *Detecting Network Effects: Randomizing over Randomized Experiments*, KDD 2017.
- 5: Basse, G., Pouget-Abadie, J., Tran, D., Xu, Y., Souvik, G., Airoidi, E. *Elements of A/B testing for link recommendation algorithms: key ideas, issues, and uncertainty quantification*, working paper.
- 6: Pouget-Abadie, J., Parkes, D. C., Mirrokni, V., Airoidi, E. M. *Optimizing cluster-based randomized experiments under a monotonicity assumption*, KDD 2018.
- 7: Pouget-Abadie, J. *Dealing with Interference on Experimentation Platforms*, Doctoral dissertation 2018.
- 8: Rolnick, D., Aydin, K., Pouget-Abadie, J., Kamali, S., Mirrokni, V., Najmi, A. *Randomized Experimental Design via Geographic Clustering*, KDD 2019.
- 9: Pouget-Abadie, J. Saveski, M., Duan, W., Ghosh, S., Xu, Ya, Airoidi, E. *Testing for arbitrary interference on experimentation platforms*, Biometrika 2019
- 10: Pouget-Abadie, J., Aydin, K., Schudy, W., Brodersen, K., Mirrokni, V. *Variance Reduction in Bipartite Experiments through Correlation Clustering*, NeurIPS 2019.

Other professional experience

Program committees: PNAS, JMLR, NeurIPS, ICML, KDD, WWW

Harvard University

Teaching Fellow, Course instructor: Finale Doshi-Velez

– Teaching Fellow for CS181 *Introduction to Machine Learning*.

Cambridge, MA

Spring 2016

Société Générale Group

Risk Management intern

– Contributor to credit risk modeling team.

Prague, Czech Republic

Summer 2013

French Embassy of Bénin

Teaching assistant in Mathematics and Physics

– Teaching assistant in mathematics and physics in Beninese high schools and universities.

Cotonou, Bénin

October–April 2012

Fellowships & Awards

2018: NSF Travel Award

2017: Siebel Fellowship: www.siebelscholars.com

Spring 2016: Derek Bok Center Teaching Award: bokcenter.harvard.edu/awards

2014: Bourse Carnot: <http://carnot.org>

Languages

Languages: English (native), French (native), Spanish (professional working proficiency), Mandarin (basic), Dutch (basic), Python (preferred), R (basic), C/C++ (basic)