

Jean Pouget-Abadie

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Education

Harvard University

PhD candidate in Computer Science. Advisor: Edoardo Airoldi, Salil Vadhan

Research focusing on causal inference and network interference.

Relevant courses taken:

- Topics on Computation (*Prof. Singer*)
- Mechanism Design & Approximation (*Prof. Hartline*)
- Advanced Algorithms. (*Prof. Nelson*)
- Bayesian Data Analysis. (*Prof. Liu*)
- Probabilistic Analysis and Algorithms. (*Prof. Mitzenmacher*)
- Advanced Machine Learning (*Prof. Doshi-Velez*)
- Statistical Methods for Data Analysis (*Prof. Rubin*)
- Big Data Systems (*Prof. Idreos*)

Cambridge, MA

Fall 2014–present

Ecole Polytechnique

Diplôme d'ingénieur (M.S)

Courses focusing on machine learning, operations research, optimization, and economics

Paris, France

Spring 2011–Spring 2014

Research experience

Google

Research intern, Algorithms team. Host: Vahab Mirrokni

– Research on improving experimentation at Google.

New York City, NY

Fall 2017–Present

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 leading to an experiment launch on 5% of LinkedIn users.

Sunnyvale, CA

Fall 2015–Spring 2017

Facebook

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

– Research on predicting privacy mistakes made by Facebook users leading to launch of machine learning model to 5% of all Facebook users.

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

Teaching experience

Harvard University

Teaching Fellow, Course instructor: Finale Doshi-Velez

– Occupied Teaching Fellow role for CS181 *Introduction to Machine Learning*.
– Earned Certificate of Distinction from the Derek Bok Center: bokcenter.harvard.edu/awards

Cambridge, MA

Spring 2016

Publications and working papers

- 1: Pouget-Abadie, J., Parkes, D. C., Mirrokni, V., Airoidi, E. M. *Optimizing cluster-based randomized experiments under a monotonicity assumption*, KDD 2018.
- 2: Pouget-Abadie, J. Saveski, M., Duan, W., Ghosh, S., Xu, Ya, Airoidi, E. *Testing for arbitrary interference on experimentation platforms*, arXiv:1704.01190. *Under review*.
- 3: Saveski, M., Pouget-Abadie, J., Duan, W., Ghosh, S., Xu, Ya, Airoidi, E. *Detecting Network Effects: Randomizing over Randomized Experiments*, KDD 2017.
- 4: 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.
- 5: Pouget-Abadie, J., Horel, T. *Inferring Graphs from Cascades: A Sparse Recovery Framework*, ICML 2015.
- 6: Goodfellow, I., Pouget-Abadie, J., Mirza, M., Bing, X., Warde-Farley, D., Ozair, S., Courville, A. and Bengio, Y. *Generative Adversarial Networks*, NIPS 2014.
- 7: 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.

Fellowships

2017-2018: Siebel Fellowship: www.siebelscholars.com

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

Volunteering

Lycée Privé Ste Geneviève

Teaching assistant in English

Helped students prepare for the English entrance exam to Ecole Polytechnique

Versailles, France

September–March 2013

Misión Potosí

Micro-credit team leader

Led the micro-credit sector of a humanitarian mission in Bolivia, collaborating with local social workers

Potosí, Bolivia

Summer 2012

French Embassy of Bénin

Teaching assistant in Mathematics and Physics

Taught classes in mathematics and physics in Beninese high schools and universities

Cotonou, Bénin

October–April 2012

Languages

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