

Jean Pouget-Abadie

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Education

Harvard University

Cambridge, MA

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

Fall 2014–present

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*)

Ecole Polytechnique

Paris, France

Diplôme d'ingénieur (M.S)

Spring 2011–Spring 2014

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

Research and teaching experience

Spotify

New York City, NY

Research intern, Music recommendation team

Summer 2017

- Research on improving music recommendation at Spotify

Harvard University

Cambridge, MA

Graduate Research Assistant, Supervisor: Edoardo Airoldi

Fall 2015–Present

- Collaborated with LinkedIn's experimentation team to launch a multi-level randomized experiment to test validity of common A/B testing strategies.
- Suggested alternative estimators to improve estimation of the performance of People-You-May-Know algorithms.

Harvard University

Cambridge, MA

Teaching Fellow, Course instructor: Finale Doshi-Velez

Spring 2016

- Occupied Teaching Fellow role for CS181 *Introduction to Machine Learning*.
- Earned Certificate of Distinction from the Derek Bok Center for Teaching and Learning.

Facebook

Menlo Park, California

Research intern, Core Data Science Team, Supervisor: Udi Weinsberg

Summer 2015

- Designed algorithm for predicting privacy mistakes made by Facebook users
- Tested and launched machine learning model to 5% of all Facebook users
- Led research project focused on quantifying spam and commercial content on Instagram

MILA, Université de Montréal

Montréal, Québec, Canada

Research intern, Supervisor: Yoshua Bengio

Summer 2014

- Research on neural networks for French-English translation
- Research on neural network models for image generation

Publications and working papers

1: Pouget-Abadie, J. Saveski, M., Duan, W., Ghosh, S., Xu, Ya, Airoldi, E. *Testing for arbitrary interference on experimentation platforms.*, In submission to *Biometrika*.

- 2: Saveski, M., Pouget-Abadie, J., Duan, W., Ghosh, S., Xu, Ya, Airolidi, E. *Detecting Network Effects: Randomizing over Randomized Experiments*, KDD 2017.
- 3: Basse, G., Pouget-Abadie, J., Tran, D., Xu, Y., Souvik, G., Airolidi, E. *Elements of A/B testing for link recommendation algorithms: key ideas, issues, and uncertainty quantification*, working paper.
- 4: Pouget-Abadie, J., Horel, T. *Inferring Graphs from Cascades: A Sparse Recovery Framework*, ICML 2015.
- 5: Goodfellow, I., Pouget-Abadie, J., Mirza, M., Bing, X., Warde-Farley, D., Ozair, S., Courville, A. and Bengio, Y. *Generative Adversarial Networks*, NIPS 2014.
- 6: 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.

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 (basic)