Jean Pouget-Abadie

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Current Role

Google Research **New York City, NY, USA**
Staff Research Scientist, Manager II *2017 – present*
Tech lead and manager of research team within the Algorithms and Optimization group of Google Research. Focus on causal inference, statistics, evaluation of Large Language Models. Extensive experience working with various internal Ads orgs, YouTube, and Gemini. Previous roles: Senior Research Scientist (2020-2023), Research Scientist (2018-2020), Student Researcher (2017-2018).

Education

Harvard School of Engineering and Applied Sciences **Cambridge, MA, USA**
PhD in Computer Science. Dissertation: "Dealing with Interference on Experimentation Platforms" *2014 – 2018*
Advisors: Edoardo Airoldi, Salil Vadhan

École Polytechnique **Paris, France**
Diplôme d'ingénieur (Masters equivalent) *2011-2014*
Courses focusing on mathematics, statistics, machine learning, operations research, optimization and economics. Preparation to entrance examination completed at Lycée Ste Geneviève (2009-2011).

Previous Work experience

Spotify **New York City, NY, USA**
Summer intern. Working on deep learning for music recommendation. *2017*

Meta **Menlo Park, CA, USA**
Summer intern. Working with Udi Weinsberg on Core Data Science team. *2015*

Université de Montréal **Montréal, Québec, Canada**
Research Assistant. Working with Prof. Yoshua Bengio on neural networks for unsupervised learning. *2014*

Selected Publications

Jennifer Brennan, Vahab Mirrokni, and Jean Pouget-Abadie. Cluster randomized designs for one-sided bipartite experiments. *NeurIPS*, 35:37962–37974, 2022.

Nick Doudchenko, Khashayar Khosravi, Jean Pouget-Abadie, Sebastien Lahaie, Miles Lubin, Vahab Mirrokni, Jann Spiess, and Guido Imbens. Synthetic design: An optimization approach to experimental design with synthetic controls. *NeurIPS*, 34:8691–8701, 2021.

Ian Goodfellow, Jean Pouget-Abadie, Mehdi Mirza, Bing Xu, David Warde-Farley, Sherjil Ozair, Aaron Courville, and Yoshua Bengio. Generative adversarial nets. *NeurIPS*, 27, 2014.

Christopher Harshaw, Fredrik Sävje, David Eisenstat, Vahab Mirrokni, and Jean Pouget-Abadie. Design and analysis of bipartite experiments under a linear exposure-response model. *Electronic Journal of Statistics*, 17(1):464–518, 2023.

Evan Munro, David Jones, Jennifer Brennan, Roland Nelet, Vahab Mirrokni, and Jean Pouget-Abadie. Causal estimation of user learning in personalized systems. In *Proceedings of the 24th ACM Conference on Economics and Computation*, pages 992–1016, 2023.

Jean Pouget-Abadie, Kevin Aydin, Warren Schudy, Kay Brodersen, and Vahab Mirrokni. Variance reduction in bipartite experiments through correlation clustering. *NeurIPS*, 32, 2019.

Jean Pouget-Abadie and Thibaut Horel. Inferring graphs from cascades: A sparse recovery framework. In *ICML*, pages 977–986. ICML, 2015.

Jean Pouget-Abadie, Guillaume Saint-Jacques, Martin Saveski, Weitao Duan, Souvik Ghosh, Ya Xu, and Edoardo M Airoldi. Testing for arbitrary interference on experimentation platforms. *Biometrika*, 106(4):929–940, 2019.

Martin Saveski, Jean Pouget-Abadie, Guillaume Saint-Jacques, Weitao Duan, Souvik Ghosh, Ya Xu, and Edoardo M Airoldi. Detecting network effects: Randomizing over randomized experiments. In *KDD*, pages 1027–1035, 2017.

Honors & Awards

2024: NeurIPS Test of Time Award, **2017:** Siebel Fellowship, **2014:** Carnot Scholarship

Language skills

English: Native, **French:** Native, **Spanish:** Professional working proficiency.