Rajita Chandak

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Ap	poin	tm	ents

Bernoulli Instructor Lausanne, Vaud, Switzerland *Institute of Mathematics, École Polytechnique Fédérale de Lausanne (EPFL)* 2024-2026 Mentor: Victor Panaretos **Assistant Professor** Madison, WI, USA Department of Statistics, University of Wisconsin-Madison starting 2026 Education Princeton, NJ, USA **Princeton University** Ph.D. in Operations Research and Financial Engineering (ORFE) 2019-2024 **Dissertation:** Adaptive nonparametric statistical theory and implementation Advisor: Matias Cattaneo **Princeton University** Princeton, NJ, USA M.A. in Operations Research and Financial Engineering (ORFE) 2019-2021 Providence, RI, USA **Brown University** Sc.B. with Honors in Applied Mathematics and Economics 2015-2019 Honors Thesis: Energy-aware optimization of scalable load balancing strategies Advisor: Kavita Ramanan **Honors and Awards** 2024 Scholar Award 2025 Maheshwari Vidya Pracharak Mandal (MVPM), Pune, India Invited paper for Annals of Statistics session at Joint Statistical Meeting (JSM) 2025 Paper: "Convergence Rates of Oblique Regression Trees for Flexible Function Libraries" Bernoulli Instructorship 2024 - 2026École Polytechnique Fédérale de Lausanne (EPFL), Switzerland School of Engineering and Applied Science Travel Grant 2023 Princeton University Finalist for Graduate Research Fellowship 2023 Iane Street School of Engineering and Applied Science Award for Excellence 2022 Princeton University Research Convergence rates of oblique regression trees for flexible function libraries Annals of Statistics 2024, Vol. 52, No. 2, 466-490 with Matias Cattaneo and Jason Klusowski

Boundary adaptive local polynomial conditional density estimators

Bernoulli, 2024, Vol. 30, No. 4, 3193-3223

with Matias Cattaneo, Xinwei Ma and Michael Jansson

Preprints.

On the convergence of a federated expectation-maximization algorithm
with Zhixu Tao and Sanjeev Kulkarni

1pcde: Local polynomial conditional density estimation and inference
with Matias Cattaneo, Xinwei Ma and Michael Jansson

R&R at JOSS

Working Papers	
Consistency of the EM algorithm in high dimensions with Matias Cattaneo and Jason Klusowski	

Work Experience

NSF Research Experience for Undergraduates (REU) Worcester Polytechnic Institute (WPI), MA Award DMS 1757685 NSF Research Experience for Undergraduates (REU) California State University (CSU), Chico, CA Award NSF 1559788

Talks and Conferences

A new variable importance metric for oblique regression trees

University of Groningen Groningen, NL Econometrics Seminar, Department of Economics February 2024 London School of Economics (LSE) London, UK Statistics Seminar, Department of Statistics January 2024 University of Wisconsin-Madison Virtual Statistics Seminar, Department of Statistics January 2024 **EPFL Statistics Seminar** Virtual Statistics Seminar, Institute of Mathematics December 2023 Joint Statistical Meeting Toronto, CA Invited speaker, Topic-contributed session on decision trees and random forests August 2023 Statistical foundations of data science and their applications Princeton, NJ, USA Princeton University May 2023 Local organizing committee member New York City, NY, USA **Iane Street** Invited speaker, Graduate Research Fellowship Workshop April 2023 Providence, RI, USA 2018, 2019

Symposium for Undergraduates in Mathematical Sciences (SUMS) Invited speaker, hosted at Brown University

Joint Mathematics Meeting Baltimore, MD, USA AMS, MAA 2018, 2019

Women in Mathematics in New England (WIMIN) Northampton, MA, USA Smith College September 2018

MIST Workshop Worcester, MA, USA WPI, Applied and Industrial Mathematics Institute for Secondary Teaching July 2018

Teaching Experience

Lecturer (as Bernoulli Instructor) Lausanne, CH Institute of Mathematics, EPFL 2024-Present MATH 524: Nonparametric estimation and inference (Spring 2025, Spring 2026). MATH 562: Statistical Inference (Fall 2025), MATH 413: Statistics for data science, Spring 2025 (co-taught with Myrto Limnios).

Princeton, NJ, USA **Graduate Assistant in Instruction** ORFE, Princeton University 2020-2024 ORF 499: Senior Thesis (Spring 2024), SML 312: Research Projects in Data Science (Fall 2023), ORF 498: Senior Independent Research Foundations (Fall 2023), ORF 504: Financial Econometrics (Spring 2023),

ORF 524: Statistical Theory and Methods (Fall 2021, Fall 2022), ORF 245: Fundamentals of Statistics (Fall 2020, Spring 2021). **Undergraduate Teaching Assistant** Providence, RI, USA Department of Applied Mathematics, Brown University 2017 - 2019 APMA1720: Monte Carlo Simulations with Applications to Finance (Spring 2019),

MPA2065: Intro. to Data Science for the Masters of Public Affairs program (Spring 2018),

APMA1650: Statistical Inference I (Fall 2017).

Software and Programming Skills

R packages: lpcde

Python packages: **lpdensity**, **rddensity**

Additional programming experience: Matlab, Mathematica, Julia, C++, STATA, Java, HTML, CSS

Service

EPFL Statistics Seminar 2024–2026

Co-organizer

Peer Review Since 2021

Annals of Statistics, Bernoulli, Econometric Theory, Journal of the American Statistical Association (JASA), Journal of Causal Inference, Journal of Econometrics, Operations Research (OR).

Senior Thesis Writer's Group Co-Leader

Princeton, NJ

2020-2023

ORFE Department, Princeton University

Mentored 4th year undergraduate students in ORFE with thesis research and writing. Offered as a regular course (ORF 498/499) starting Fall 2023.

Languages

English: Native Proficiency Hindi: Native Proficiency French: Intermediate (CEFR A2)