Rajita Chandak

				•	4		4
A	n	n	O	111	tm	en	ts.
7 .	\mathbf{r}	М.	v	**	CIL	-	

Bernoulli Instructor Institute of Mathematics, École Polytechnique Fédérale de Lausanne (EPFL) Mentor: Victor Paneretos	Lausanne, Vaud, Switzerland 2024–2026
Assistant Professor	Madison, WI, USA
Department of Statistics, University of Wisconsin-Madison	starting 2026
Education	
Princeton University Ph.D. in Operations Research and Financial Engineering (ORFE) Dissertation: Adaptive nonparametric statistical theory and implementation Advisor: Matias Cattaneo	Princeton, NJ, USA 2019–2024
Princeton University M.A. in Operations Research and Financial Engineering (ORFE)	Princeton, NJ, USA 2019-2021
Brown University Sc.B. with Honors in Applied Mathematics and Economics Honors Thesis: Energy-aware optimization of scalable load balancing strategies Advisor: Kavita Ramanan	Providence, RI, USA 2015–2019
Honors and Awards	
Invited paper for Annals of Statistics session at Joint Statistical Meeting (JSN Paper: "Convergence Rates of Oblique Regression Trees for Flexible Function Libraries"	
Bernoulli Instructorship École Polytechnique Fédérale de Lausanne (EPFL)	2024 – 2026
School of Engineering and Applied Science Travel Grant Princeton University	2023
Finalist for Graduate Research Fellowship Jane Street	2023
School of Engineering and Applied Science Award for Excellence Princeton University	2022
Research	
Publications	
Convergence rates of oblique regression trees for flexible function libraries <i>Annals of Statistics</i> 2024, <i>Vol.</i> 52, <i>No.</i> 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	arxiv:2408.05819
lpcde: Local polynomial conditional density estimation and inference with Matias Cattaneo, Xinwei Ma and Michael Jansson	arxiv:2204.10375
Working Papers	

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

A new variable importance metric for oblique regression trees

Work Experience

NSF Research Experience for Undergraduates (REU) Worcester Polytechnic Institute (WPI), MA

Award DMS 1757685 2018

NSF Research Experience for Undergraduates (REU) California State University (CSU), Chico, CA

Award NSF 1559788

Talks and Conferences

University of Groningen

Econometrics Seminar, Department of Economics

London School of Economics (LSE)

Statistics Seminar, Department of Statistics

London, UK

Statistics Seminar, Department of Statistics
University of Wisconsin-Madison
Virtual

Statistics Seminar, Department of Statistics

EPFL Statistics Seminar

Virtual

Statistics Seminar, Institute of Mathematics

December 2023

Joint Statistical MeetingToronto, CAInvited speaker, Topic-contributed session on decision trees and random forestsAugust 2023

Statistical foundations of data science and their applications Princeton, NJ, USA

Princeton University

May 2023

Local organizing committee member

Jane Street New York City, NY, USA

Invited speaker, Graduate Research Fellowship Workshop April 2023

Symposium for Undergraduates in Mathematical Sciences (SUMS) Providence, RI, USA

Invited speaker, hosted at Brown University 2018, 2019

Joint Mathematics Meeting
AMS, MAA
Baltimore, MD, USA
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)

Institute of Mathematics, EPFL

2024-Present

Institute of Mathematics, EPFL MATH 524: Nonparametric estimation and inference, Spring 2025.

MATH 413: Statistics for data science, Spring 2025 (co-taught with Myrto Limnios).

Graduate Assistant in Instruction

Princeton, NJ, USA

2020-2024

2017 - 2019

ORFE, Princeton University

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
APMA1720: Monte Carlo Simulations with Applications to Finance (Spring 2019),

AT MAT 20. Worther Carlo Simulations with Applications to Finance (Spring 2017),

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

Bernoulli,

Journal of the American Statistical Association (JASA),

Econometric Theory,

Operations Research (OR),

Journal of Causal Inference (JCI).

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)