Raaz Dwivedi

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ACADEMIC APPOINTMENTS & EDUCATION	**FODSI Postdoctoral Fellow**, Harvard University & Massachusetts Institute of Technology *2021-* Advisors: *Prof. Susan Murphy & Prof. Devavrat Shah* **Ph.D., EECS**, University of California at Berkeley (GPA 4.0/4.0) *2015-2021* Advisors: *Prof. Martin Wainwright & Prof. Bin Yu* Thesis: *Principled statistical approaches for sampling, and inference in high dimensions* **B. Tech., EE**, Indian Institute of Technology, Bombay (GPA 9.95/10.0) *2010-2014* Advisor: *Prof. Vivek Borkar*
RESEARCH INTERESTS	Causal inference, sequential decision making, reinforcement learning, and more broadly theoretical, and applied aspects of statistical machine learning

SELECTED ACHIEVEMENTS & AWARDS

Institute of Mathematical Statistics (IMS) New Researcher Travel Award	*2022*
Best Presentation Award, LIDS Student Conference, MIT	*2022*
Best Student Paper Award, Sections on Statistical Computing & Graphics ASA	*2022*
Postdoctoral Fellowship, Foundations of Data Science Institute (FODSI)	*2021*
Outstanding Graduate Student Instructor Award, UC Berkeley	*2020*
Berkeley Fellowship, the most prestigious fellowship for incoming Ph.D. students	*2015*
President of India Gold Medal, IIT Bombay, for the highest GPA in the institute	*2014*
All India Rank 10 (amongst half a million), IIT Joint Entrance Exam (IIT-JEE)	*2010*

WORK EXPERIENCE

Microsoft Research, Research Intern, New England, USA	*Summer 2019*
Mist Systems (Juniper Networks), Data Science Intern, Cupertino, USA	*Summer 2017*
WorldQuant Research, Senior Quantitative Researcher, Mumbai, India	*Jul 2014-Jul 2015*
Stanford University, Research intern (with Prof. Balaji Prabhakar), USA	*Summer 2013*
Ivy Mobility, Data Science Intern, Chennai, India	*Winter 2012*

SELECTED PUBLICATIONS

1. **D.** *et al.* "Counterfactual inference in sequential experimental design", *arXiv preprint, 2022*
2. **D.** *et al.* "Stable discovery of interpretable subgroups via calibration in causal studies", *International Statistical Review (ISR), 2020*
3. Altieri *et al.* "Curating a COVID-19 data repository and forecasting county-level death counts in the United States", *Harvard Data Science Review (HDSR), 2020*
4. **D.** *et al.* "Singularity, misspecification, & the convergence rate of EM", *Annals of Statistics, 2020*
5. **D.** *et al.* "Log-concave sampling: Metropolis-Hastings algorithms are fast", *Journal of Machine Learning Research (JMLR), 2019*

SELECTED INVITED TALKS

1. Counterfactual inference in sequential experimental design. *IMS Annual Meeting.*   *Jun 2022*
2. Near-optimal compression in near-linear time, *SIAM Conference, Atlanta*   *Apr 2022*
3. Near-optimal compression in near-linear time, *MSRI, Berkeley*   *Mar 2022*
4. Counterfactual inference in sequential experimental design, *Simons Inst., Berkeley*   *Feb 2022*
5. Revisiting MDL complexity in overparameterized models, *Collab. on Deep Learning*   *Nov 2021*
6. Singularity, misspecification, & the convergence rate of EM, *AMS Meeting, Riverside*   *Nov 2019*

SELECTED TEACHING EXPERIENCE

- *Sequential Decision Making*: STAT 234, Spring 2022, Harvard University
- *Modern Statistical Prediction, and Machine Learning*: STAT 154, Spring 2019, UC Berkeley
- *Introduction to Machine Learning*: EECS 189, Spring 2018, UC Berkeley

SELECTED ACADEMIC SERVICE

- *Reviewer*: Bernoulli, JMLR, IEEE-IT, COLT, ICML, NeurIPS, AISTATs, SODA, FOCS, AAAI
- *Mentor*: Summer Institute on Micro-Randomized Trial Designs (2021), IDSS (Ph.D.) at MIT (2022), BAIR (Ph.D. and UG) at UC Berkeley (2018-20), ISMP (UG) at IIT Bombay (2013-14)
- *Graduate Admission Committee*: EECS MIT (2021), EECS UC Berkeley (2018-2020)