

# RAAZ DWIVEDI

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ACADEMIC APPOINTMENTS & EDUCATION	<b>FODSI Postdoctoral Fellow</b> , Harvard University & Massachusetts Institute of Technology 2021- Advisors: <i>Prof. Susan Murphy &amp; Prof. Devavrat Shah</i> <b>Ph.D., EECS</b> , University of California at Berkeley (GPA 4.0/4.0) 2015-2021 Advisors: <i>Prof. Martin Wainwright &amp; Prof. Bin Yu</i> Thesis: <i>Principled statistical approaches for sampling, and inference in high dimensions</i> <b>B. Tech., EE</b> , Indian Institute of Technology, Bombay (GPA 9.95/10.0) 2010-2014 Advisor: <i>Prof. Vivek Borkar</i>
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	<b>Microsoft Research</b> , Research Intern, New England, USA Summer 2019 <b>Mist Systems</b> (Juniper Networks), Data Science Intern, Cupertino, USA Summer 2017 <b>WorldQuant Research</b> , Senior Quantitative Researcher, Mumbai, India Jul 2014-Jul 2015 <b>Stanford University</b> , Research intern (with Prof. Balaji Prabhakar), USA Summer 2013 <b>Ivy Mobility</b> , Data Science Intern, Chennai, India Winter 2012
SELECTED PUBLICATIONS	1. <b>D. et al.</b> “Counterfactual inference in sequential experimental design”, <i>arXiv preprint</i> , 2022 2. <b>D. et al.</b> “Stable discovery of interpretable subgroups via calibration in causal studies”, <i>International Statistical Review (ISR)</i> , 2020 3. Altieri <i>et al.</i> “Curating a COVID-19 data repository and forecasting county-level death counts in the United States”, <i>Harvard Data Science Review (HDSR)</i> , 2020 4. <b>D. et al.</b> “Singularity, misspecification, & the convergence rate of EM”, <i>Annals of Statistics</i> , 2020 5. <b>D. et al.</b> “Log-concave sampling: Metropolis-Hastings algorithms are fast”, <i>Journal of Machine Learning Research (JMLR)</i> , 2019.
SELECTED INVITED TALKS	1. Counterfactual inference in sequential experimental design. <i>IMS Annual Meeting.</i> Jun 2022 2. Near-optimal compression in near-linear time, <i>MSRI, Berkeley</i> Mar 2022 3. Counterfactual inference in sequential experimental design, <i>Simons Inst., Berkeley</i> Feb 2022 4. Imputation using nearest neighbors for adaptively collected data, <i>FODSI Retreat</i> Jan 2022 5. Revisiting MDL complexity in overparameterized models, <i>Collab. on Deep Learning</i> Nov 2021 6. Singularity, misspecification, & the convergence rate of EM, <i>AMS Meeting, Riverside</i> Nov 2019
SELECTED TEACHING EXPERIENCE	<ul style="list-style-type: none"> <li>• <i>Sequential Decision Making</i>: STAT 234, Spring 2022, Harvard University</li> <li>• <i>Modern Statistical Prediction, and Machine Learning</i>: STAT 154, Spring 2019, UC Berkeley</li> <li>• <i>Introduction to Machine Learning</i>: EECS 189, Spring 2018, UC Berkeley</li> </ul>
SELECTED ACADEMIC SERVICE	<ul style="list-style-type: none"> <li>• <i>Reviewer</i>: Bernoulli, JMLR, IEEE-IT, COLT, ICML, NeurIPS, AISTATs, SODA, FOCS, AAAI</li> <li>• <i>Mentor</i>: 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)</li> <li>• <i>Graduate Admission Committee</i>: EECS MIT (2021), EECS UC Berkeley (2018-2020)</li> </ul>