## Abhineet Agarwal aa3797@berkeley.edu | Personal Website | Google Scholar | Github | LinkedIn

## **EDUCATION**

• Univ PhD	<b>versity of California, Berkeley</b> <i>9, Statistics</i>	2020 - Present
∘ Ad ∘ Ret	lvisor: Prof. Bin Yu ferences: Prof. Bin Yu, Prof. Anish Agarwal	
• Colu B.A. • Aw	<b>umbia University</b> <i>Physics, Mathematics</i> vards: Magna Cum Laude, Phi Beta Kappa, Science Research Fellow, Departm	2015-2019 Dental Honors
WOR	K EXPERIENCE	
• Cita	del	May 2024 - August 2024
<i>Qua</i> ∘ De	ntitative Research Intern, Equity Quantitative Research (EQR) eveloped and implemented machine learning models for alpha-research	New York
<ul> <li>Simons Foundation, Flatiron Institute Research Intern, Center for Computational Physics</li> <li>Developed and implemented numerical algorithms to study novel physics in suj</li> </ul>		<i>May 2018 - May 2019</i> New York perconductors.
Skil	LS	
• Pro	gramming/ML Tools: Python, Pytorch, Scikit-Learn, Hugging Face, Git	
• Res Infe	search Skills: Artificial Intelligence (AI), Machine Learning, Deep Learning, In erence, Bandits, Active Learning, Recommender Systems (Rankings), Tabular 1	terpretability, Causal Deep Learning
PUBL	LICATIONS C=CONFERENCE	CE, J=JOURNAL, S=IN SUBMISSION
* den	otes equal contribution.	
[S.1]	Justin Singh Kang <sup>*</sup> , Landon Butler <sup>*</sup> , <b>Abhineet Agarwal</b> <sup>*</sup> , et.al (2025). <b>SPEX: Scalir Explanations for LLMs</b> . Submitted to <b>ICML</b>	ıg Feature Interaction
[S.2]	Abhineet Agarwal <sup>*</sup> , Michael Xiao <sup>*</sup> et.al (2025). Uncertainty Quantification via the Predictability, Computability, and Stability Framework. Submitted to Proceedings of the National Academy of Sciences	
[C.1]	Abhineet Agarwal, et al. (2024). Multi-Armed Bandits with Network Interference. In NeurIPS, MIT CODE, Stanford Graph Learning Workshop	
[C.2]	Liwen Sun, Abhineet Agarwal, et al. (2024). ED-Copilot: Reducing Emergency Department Wait Time with Language Model Diagnostic Assistance. In ICML	
[J.1]	Yan Shuo Tan <sup>*</sup> , Chandan Singh <sup>*</sup> , Keyan Nasseri <sup>*</sup> , <b>Abhineet Agarwal</b> <sup>*</sup> , et al. (2025). <b>Fast Interpretable Greedy</b> <b>Tree Sums (FIGS)</b> . In <b>Proceedings of the National Academy of Sciences (PNAS)</b> .	
[J.2]	Qianru Wang, et al., including <b>Abhineet Agarwal</b> (2024). <b>Epistasis Regulates Genetic Control of Cardiac Hypertrophy</b> . Accepted to Nature Cardiovascular Medicine.	
[C.3]	Abhineet Agarwal, et al. (2023). Synthetic Combinations: A Causal Inference Framework for Combinatorial Interventions. In NeurIPS, MIT CODE ( <i>Oral Presentation</i> ), extended version in submission to Econometrica	
[ <b>S.</b> 3]	Abhineet Agarwal, et al. (2023). MDI+: A Random-Forest Based Flexible Feature Importance Framework. Manuscript submitted to Journal of the American Statistical Association (JASA).	
[C.4]	bhineet Agarwal, et al. (2022). Hierarchical Shrinkage: Improving the Accuracy and Interpretability of ree-Based Methods. In ICML ( <i>Oral Presentation</i> )	
[C.5]	in Yan Shuo, <b>Abhineet Agarwal</b> , Bin Yu. (2022). <b>A Cautionary Tale on Fitting Decision Trees to Additive</b> Iodels: Generalization Lower Bounds. In AISTATS	
[J.3]	Abhineet Agarwal, et al. (2022). Veridical Flow: A Python Package for Building 7 Pieplines with PCS. In Journal of Open-Source Software (JOSS).	<b>Frustworthy Data-Science</b>
SERV	/ICE	
• Revi	iewer nferences: NeurIPS, ICML, AISTATS ( <mark>Top Reviewer</mark> )	
∘ Jou Rep	irnals: Annals of Applied Statistics, Annals of Statistics, IEEE Transactions on Inform ports	ation Theory, Cell Physical

- Teaching
  - Graduate Student Instructor (GSI) STAT 214: Data Analysis and ML for Real-World Decision Making
- GSI for Physics 8A/B: Introductory Physics