ROBI BHATTACHARJEE

PRESENT ADDRESS
REDACTED FOR SAFETY FROM DANGER

CONTACT INFORMATION
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EDUCATION

Univeristy of California, San Diego
PhD student in computer science, Fall 2018 - Present
Advised by Kamalika Chaudhuri and Sanjoy Dasgupta

Massachusetts Institute of Technology
Bachelor of Science, General Mathematics, June 2016

WORK EXPERIENCE

Graduate RA — UCSD, San Diego, CA — 2018-Present

Conducting research on various topics in theoretical machine learning, including adversarial robustness and k-means clustering.

TA for CSE 251B — UCSD, San Diego, CA — Winter 2020, Winter 2021

Graduate Machine Learning. Led discussions and office hours. Also did a fair amount of grading.

Assistant Trader — Five Rings Capital, New York City, NY — June 2016- July 2017

Developed automated trading strategies and wrote code for simulating them on past market data.

Research Intern — Jane Street Capital, New York City, NY — Summer 2015

Developed cross validation algorithms to correct data redundancy. Simulated providing in markets.

PUBLICATIONS

Robi Bhattacharjee and Michal Moshkovitz. "**No-substitution k-means Clustering with Adversarial Order.**" Algorithmic Learning Theory, 2021.

Robi Bhattacharjee and Kamalika Chaudhuri. "**When are Non-parametric Methods Robust?**" International Conference of Machine Learning, 2020.

Robi Bhattacharjee and Sanjoy Dasgupta. "**What relations are reliably embeddable in Euclidean space?**" Algorithmic Learning Theory, 2020.

PREPRINTS

Robi Bhattacharjee and Jacob Imola. "**No-Substitution k-means Clustering with Low Center Complexity and Memory**" in submission to COLT, 2021.

Robi Bhattacharjeee, Somesh Jha, and Kamalika Chaudhuri. "**Sample Complexity of Adversarially Robust Linear Classification on Separated Data.**" in submission to ICML, 2021.

Robi Bhattacharjeee and Kamalika Chaudhuri. "**Consistent Non-Parametric Methods for Adaptive Robustness.**" in submission to ICML, 2021.

Robi Bhattacharjee. "**Optimally Perturbed Identity Matrices of Rank 2.**" in submission nowhere, 2019.

SERVICE

Mentor for UCSD Graduate Women in Computing (Fall 2020 - Winter 2021).
Geometry teacher for MISE foundation (Winter - Spring 2021).
Reviewer for AISTATS (Fall 2020).
Reviewer for JMLR (Winter 2021).

HONORS AND AWARDS

Honorable Mention on the William Lowell Putnam Examination 2012, 2013.
9th place individual nationally in American Regional Mathematics Competition.
Participant of the Math Olympiad Summer Program in 2010.
USAMO qualifier 2009-2012 (ranked 26th in nation in 2012).

TALKS

"**No-substitution k-means Clustering with Adversarial Order.**" Algorithmic Learning Theory, (Spring 2021).

"**No-substitution k-means Clustering with Adversarial Order.**" UCSD theory group, (Winter 2021).

"**When are Non-parametric Methods Robust?**" International Conference of Machine Learning, (Summer 2020).

"**What relations are reliably embeddable in Euclidean space?**" Algorithmic Learning Theory, (Winter 2020).

Basics of Information Theory. San Diego Math Circle, (Fall 2020).

"**What relations are reliably embeddable in Euclidean space?**" SoCalML (Spring 2019).