Hermish Mehta

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Education

University of California, Berkeley *Berkeley, California* [2017-21]
B.S. Electrical Engineering & Computer Sciences
B.S. Engineering Mathematics & Statistics
Grade Point Average: 4.0/4.0

University of Toronto *Toronto, Ontario* [2013-17]
Classes in Mathematics and Computer Science
Grade Point Average: 4.0/4.0

University of Toronto Schools *Toronto, Ontario* [2013-17]

Research Experience

Department of Mathematics, University of California, Berkeley *Research Assistant* [2018-]
- Studying constant factor balanced-cut approximation algorithms in semi-random graphs
- Attempting to improve power of current algorithms through reducing input restrictions
- Working through Berkeley's graduate *Beyond Worse-Case Analysis* class

Computational Cognitive Science Lab *Research Assistant* [2017-]
- Studying rational models of curiosity and belief change to develop insights about cognition
- Building Bayesian models to quantitatively predict and explain cognitive phenomena
- Applying statistical methods to analyze Big Data from online user interactions

Concepts and Cognition Lab *Research Assistant* [2017-]
- Studying curiosity as a psychological phenomenon and its interplay with an individual's social context
- Designing, administrating and evaluating web-based studies to answer research questions
- Invited talk at the 40th Annual Conference of the Cognitive Science Society

Department of Psychology, University of Toronto *Research Assistant* [2017]
- Studied potential evidence-based positive education interventions under Dr. Jeffrey Graham
- Developed and refined predictive models of student performance using Scikit-Learn

Industry Experience

CodeBase Berkeley *Software Developer* [2017-]
- Working with a small team to develop software for clients, Bay Area start-ups, Riffyn and Polymorph
- Used machine learning and linear optimization techniques to predict and maximize ad revenue
- Built an intuitive web-based UI for scientists to visualize data and perform regressions in Python

Parlay Ideas and AvatarMe *Developer and Research Intern* [2016]
- Researched education technology to design a virtual environment to gamify education
- Implemented a live twitter feed into the game, programmed with Unity and C sharp
- Prototyped an Amazon Aws noSQL database transition with engineers

Publications

Asterisks indicate equal contribution.

Conference Papers

1. {Forthcoming} **Mehta, H.***, Dubey, R.*, & Lombrozo, T. (2018). Your liking is my curiosity: a social popularity intervention to induce curiosity. To appear at the *40th Annual Conference of the Cognitive Science Society.*

Awards & Honors

Student Mentoring and Research Teams **Summer Research Fellowship** [2018]
Cognitive Science Society **Invited Oral Presentation** [2018]
College of Engineering **Dean's Honors List** [2017-18]
University of California, Berkeley **Honors-to-Date** [2017-18]

Edward Frank **Kraft Award for Freshmen** [2017]
Silver Medalist at the 49$^{\text{th}}$ **International Chemistry Olympiad** [2017]
Ninth place in the **National Biology Contest** [2017]

Invited to the 48$^{\text{th}}$ **International Chemistry Olympiad** [2016]
First place in the **Canadian Chemistry Contest** [2016]
First place at the DECA **International Career Development Conference** [2015]

Teaching Experience

University of California, Berkeley *Berkeley, California*
CS 61A, Structure and Interpretation of Computer Programs *Course Tutor* [2018]
CS 70, Discrete Mathematics & Probability Theory *Computer Science Mentors* [2017]

University of Toronto *Toronto, Ontario*
Math 102, Introduction to Mathematical Proofs *Study Group Leader* [2015-17]
Math 135, Calculus *Study Group Leader* [2016]
Economics 100, Introduction to Economics *Study Group Leader* [2015]

Activities

IEEE–Eta Kappa Nu Honor Society *Service Officer* [2018-]
- Helping organize and run outreach events for middle and high school students
- Led a workshop around data analysis, visualization and statistical learning for students
- Volunteered for SWE, mentoring four students over 10 weeks to complete an Arduino project

Tau Beta Pi Engineering Honor Society *Member* [2017-]