

Vishal Chakraborty

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EDUCATION	University of California, Santa Cruz, USA Ph.D., Computer Science Advisor: Prof. Phokion G. Kolaitis June 2022 (<i>Expected</i>)
	University of Cambridge, England M.Phil., Advanced Computer Science Thesis: <i>Learnability of First-Order Definable Sets With an Application to Artificial Neural Networks</i> Advisor: Prof. Anuj Dawar July, 2018
	University of California, Davis, USA B.A.S., <i>summa cum laude</i> , Computer Science and Philosophy Honours Project and Thesis (in three parts): <i>Complexity Analysis of Computational Models</i> Prof. D. Doty <i>Pure and Applied Logic, Analytic Philosophy</i> The late Prof. G.A. Antonelli, Prof. E.M. Landry <i>Online Student Management Software and Developing Recommender System (in R)</i> Prof. N. Matloff June, 2017
RESEARCH EXPERIENCE	University of California, Santa Cruz Applications of Logic to Computer Science and Artificial Intelligence Computational Social Choice Theory September 2018-Present
	University of Cambridge, England Model Theory VC dimension analysis of family of sets definable in first order logic October, 2017-June, 2018
	University of California, Davis <i>National Science Foundation REU</i> Study on complexity of Chemical Reaction Networks PI: Prof. D. Doty June, 2016 - September, 2016
	<i>Vice Provost's Undergraduate Research Fellow</i> Front and back-end development of online applications, human computer interaction research PI: Prof. N. Amenta June, 2015 - June, 2017
	<i>Undergraduate Researcher</i> Built new statistical models for Recommender Systems in R; online platform for test-taking and automated grading PI: Prof. N. Matloff September, 2015 - June, 2017
SOFTWARE SKILLS	Programming: Java, C, C++, Python Databases: SQL, MySQL Web: JavaScript, jQuery, NodeJS, AngularJS Other: TensorFlow, MATLAB, \LaTeX , Git
RELEVANT COURSEWORK	Theoretical Computer Science: Category Theory, Finite Model Theory, Logic: Natural Deduction and Proof Systems, Lambda Calculus, Computability Theory, Complexity Theory Data-science and AI: Probabilistic Machine Learning, Deep Learning, and Interaction with Machine Learning Formal-Logic and Logic in Computer Science: First-Order Logic and extensions, Modal Logics, Automated Proof Search

TEACHING EXPERIENCE	University of California, Santa Cruz <i>Graduate Teaching Assistant</i> Algorithms (CMPS 101)	Fall 2018	
	University of California, Davis <i>Undergraduate Teaching Assistant</i> Introduction to Computer Science (ECS 30) Discrete Mathematics for Computer Science (ECS 20) Techno-cultural Studies (ECS 12)	September 2014-March 2017	
HONORS AND AWARDS	<ul style="list-style-type: none"> • Regents Fellowship, UCSC, 2018 • Clare Hall Research Fund, University of Cambridge, 2017 • Chancellor's Award for Excellence in Research 2017, UC, Davis, 2017 • Outstanding Undergraduate Student Award, UC Davis, 2017 • Pamela J. fair Undergraduate Scholarship for Leadership in Engineering, Uc Davis, 2014 • John E. Rowland Engineering Scholarship, UC Davis, 2014 • Provost's Award, UC Davis, 2013, 2014, 2015, 2016 		
PUBLICATIONS	<ol style="list-style-type: none"> 1. Angela, S., Chakraborty, V., Li, Y., "GreenFLY: Adding Carbon to the Equation in Online Flight Searches," <i>HCI</i>, Vancouver, Canada, 2017. 		
REFERENCES	Prof. Phokion G. Kolaitis Distinguished Professor UC Santa Cruz kolaitis@soe.ucsc.edu	Prof. Anuj Dawar Professor of Logic and Algorithms University of Cambridge anuj.dawar@cl.cam.ac.uk	Dr. N. Amenta Chair and Professor UC Davis amenta@cs.ucdavis.edu