

UTHSAV CHITRA

(302) 276-3833 ✧ uthsav.chitra@gmail.com

35 Olden Street, Princeton, NJ, Office 317

Website: <https://uthsavc.github.io>

EDUCATION

Princeton University, Princeton, New Jersey

September 2018 - Present

Ph.D. Candidate in Computer Science

Advisor: Ben Raphael

Brown University, Providence, Rhode Island

Sept 2013 - May 2017

Sc.B. Mathematics, A.B. Computer Science, A.B. Applied Math

GPA: 4.0/4.0

RESEARCH EXPERIENCE

Graduate Research Assistant, Princeton University

Summer 2018 - Present

- Studying machine learning problems motivated by applications in biology with Prof. Ben Raphael.
- Working on algorithmic problems in opinion dynamics and machine learning with Prof. Chris Musco.

PUBLICATIONS

Understanding Filter Bubbles and Polarization in Social Networks.

Uthsav Chitra, Christopher Musco. *KDD Workshop on Issues of Sentiment Discovery and Opinion Mining (WISDOM) 2019.*

<https://arxiv.org/abs/1906.08772>

Random Walks on Hypergraphs with Edge-Dependent Vertex Weights.

Uthsav Chitra, Benjamin J Raphael. *International Conference on Machine Learning (ICML) 2019.*

<http://proceedings.mlr.press/v97/chitra19a.html>

Committee Selection is More Similar Than You Think: Evidence from Avalanche and Stellar.

Tarun Chitra, Uthsav Chitra. *Manuscript, 2019.* <https://arxiv.org/abs/1904.09839>

TEACHING EXPERIENCE

Teaching Assistant, Brown University

Fall 2014, 2015, 2016; Spring 2015, 2017

- Duties included holding weekly office hours and labs, grading homeworks and tests, and developing course material.
- Classes assisted include linear algebra, probability, advanced algorithms, abstract algebra, and number theory.

Counselor, Program in Mathematics for Young Scientists (PROMYS)

Summer 2014

- Counselor for summer program that introduces high school students to higher math.
- (Socratically) guided students through daily problem sets, mentored a group project, and aided seminars in abstract algebra.

Teaching Assistant, Art of Problem Solving

Winter 2012 - Winter 2016

- Assisted online classes in real time, overseeing the message queue and helping students struggling with class material.
- Classes assisted include algebra, number theory, combinatorics, and math competition prep.

HONORS AND AWARDS

Jerome Stein Memorial Award, Brown Applied Math Department	<i>Spring 2017</i>
Elected to Phi Beta Kappa	<i>Spring 2016</i>
Placed in the Top 200, William Lowell Putnam Math Competition	<i>Winter 2015</i>
First Place, Brown Hartshorn-Hypatia Math Exam (for freshman)	<i>Fall 2013</i>

WORK EXPERIENCE

Software Engineer , Facebook	<i>August 2017 - September 2018</i>
• Developed models and infrastructure to improve user sentiment of news feed ads.	
Software Engineering Intern , Facebook	<i>Summer 2016</i>
• Worked on various front-end projects as a part of the Video Ads team.	

EXTRACURRICULARS

Instructor, Princeton Prison Teaching Initiative	<i>Starting Fall 2019</i>
Performer, Brown Lion Dance	<i>Fall 2013 - Spring 2017</i>
• Captain 2015-16, President 2016-17	
Officer, Brown Math Departmental Undergraduate Group	<i>Fall 2015 - Spring 2016</i>
Mentor, Brown Matched Advising Program for Sophomores	<i>Fall 2016, Spring 2017</i>

Hobbies: **Bouldering**, keeping up with current events (NYT, NPR, The Economist), bad puns.