

# UTHSAV CHITRA

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## EDUCATION

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**Princeton University**, Princeton, New Jersey

Ph.D. Candidate in Computer Science

*September 2018 - Present*

**Brown University**, Providence, Rhode Island

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

*Sept 2013 - May 2017*

GPA: 4.0/4.0

## PUBLICATIONS

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(\* denotes equal contribution)

**NetMix: A network-structured mixture model for reducing bias in the identification of altered subnetworks.**

Matthew A Reyna\*, Uthsav Chitra\*, Rebecca Elyanow, Benjamin J Raphael.

*International Conference on Research in Computational Molecular Biology (RECOMB) 2020, to appear.*

**Analyzing the Impact of Filter Bubbles on Social Network Polarization.**

Uthsav Chitra\*, Christopher Musco\*.

*ACM International Web Search and Data Mining Conference (WSDM) 2020, to appear.*

<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

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**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

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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

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

## EXTRACURRICULARS

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

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