

# Sara Chari

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## EDUCATION

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<b>Dartmouth College</b> , Hanover, NH	
Ph.D. in Mathematics; advisor: John Voight	June 2019
<i>Orders in Quaternion and Central Simple Algebras</i>	
A.M. in Mathematics	June 2016
<b>Bates College</b> , Lewiston, ME	
B.S. in Mathematics	May 2014

## EMPLOYMENT

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<b>St. Mary's College of Maryland</b> , St. Mary's City, MD	
Assistant Professor of Mathematics	2023-present
<b>Bates College</b> , Lewiston, ME	
Visiting Assistant Professor of Mathematics	2021-2023
<b>Drake University</b> , Des Moines, IA	
Visiting Assistant Professor of Mathematics	2020-2021
<b>Bates College</b> , Lewiston, ME	
Visiting Assistant Professor of Mathematics	2019-2020

## TEACHING EXPERIENCE

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<b>St. Mary's College of Maryland</b> , St. Mary's City, MD	
Math 152 - Calculus II	Fall 2023
<b>Bates College</b> , Lewiston, ME	
Math s45M - Enumerative Combinatorics	Spring 2023 (short term)
Math 206 - Multivariable Calculus (two sections)	Winter 2023)
Math 221 - Introduction to Abstraction	Fall 2022
Math 106 - Calculus II	Fall 2022
Math 309- Abstract Algebra	Winter 2022
Math 106 - Calculus II	Winter 2022
Math 206 - Multivariable Calculus	Fall 2021
Math 106 - Calculus II (two sections)	Fall 2021
<b>Drake University</b> , Des Moines, IA	
Math 28 - Calculus III	Spring 2021
Math 28 - Business Calculus (two sections)	Spring 2021
Math 28 - Business Calculus (two sections)	Fall 2020
Math 54 - Discrete Mathematics	Fall 2020
<b>Bates College</b> , Lewiston, ME	
Math 206 - Multivariable Calculus (two sections)	Winter 2020
Math 105 - Calculus I (two sections)	Fall 2019
Math 206 - Multivariable Calculus	Fall 2019
<b>Dartmouth College</b> , Hanover, NH	
Math 13 - Calculus of Vector-valued Functions	Spring 2019
Math 24 - Linear Algebra	Spring 2018
Math 3 - Calculus	Winter 2017

## PUBLICATIONS AND PREPRINTS

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1. (With Deveena Banerjee and Adriana Salerno) *Higher dimensional origami constructions*, *Involve*, **16** No. 2 (2023), 297-312. arXiv: <https://arxiv.org/pdf/2110.08119.pdf>
2. (With Angelica Babei) *Metacommutation of primes in Eichler orders*, October 2019. Accepted to *Acta Arithmetica* on 5/18/20. arXiv: <https://arxiv.org/pdf/1909.12915.pdf>
3. (With John Voight and Daniel Smertnig) *On basic and Bass orders*, *Proceedings of the American Mathematical Society, Series B*, **8** (2021), 11-26. <https://www.ams.org/journals/bproc/2021-08-02/S2330-1511-2021-00068-8/S2330-1511-2021-00068-8.pdf>
4. *Metacommutation of Primes in Central Simple Algebras*, *Journal of Number Theory*, **206** (2020), 296-309. arXiv: <https://arxiv.org/pdf/1809.07423.pdf>

## PROFESSIONAL DEVELOPMENT

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- “Infusing Practical Harm Reduction Strategies in the University Mathematics Classroom.” MAA mini-course workshop
- Project NExT Brown ’20 fellow Summer 2020-Summer 2021  
Helped organize a session “Mathematics for Social Justice”
- Pedagogy Nuts & Bolts Bates College, Fall 2019  
Consisted of three seminar discussions:  
“Teaching Students How to Learn”  
“Better Lectures”  
“Better Class Discussions”
- New Faculty Seminar Bates College, Fall 2019  
“Time and People Management”  
“Teaching and Inclusive Classroom”
- Sage Days 95 (Women in Sage) Montréal, Canada, July 2018
- Sage Days 87 ( $p$ -adics in Sage) UVM, July 2017
- Teaching Huddles Dartmouth College, Winter 2017  
Weekly meetings with instructors and learning fellows, led by members of Ed Tech at Dartmouth to assess course progression and develop teaching techniques as needed.
- UNCG Summer School in Computational Number Theory (Modular Forms) UNCG, June 2017
- Teaching Seminar Dartmouth College, Summer 2016  
Summer course to discuss and develop teaching skills
- CT Summer School in Number Theory (Elliptic Curves and Modular Forms) UCONN, June 2016

## ACTIVITIES AND OUTREACH

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- **Putnam Competition Supervisor** Fall 2019, 2021, 2022  
Lead problem solving sessions to help students prepare for the Putnam Competition
- **Sonia Kovalevsky Day** 2015 - 2018  
Participated on the panel, led sessions, and facilitated group activities.  
Sessions Organized:  
*How to be a Winner* (May 2016),  
*The Number Games: Survival of the Brainiacs* (May 2017).
- **Exploring Mathematics Camp at Dartmouth** 2016  
Developed two week-long workshops for high school students.  
*Probability*  
*Knot Theory*

## RESEARCH PRESENTATIONS

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- *Quaternion Algebras As Origami Constructions* January 2023  
Joint Mathematics Meetings, Boston, MA

- *Higher Dimensional Origami Constructions* January 2021  
Joint Mathematics Meetings (Virtual)
- *Metacommutation of primes in locally Eichler orders* January 2020  
Joint Mathematics Meetings, Denver, Colorado
- *Metacommutation of primes in locally Eichler orders* October 2019  
Maine-Quebec Number Theory Conference, Orono, Maine
- *Metacommutation of primes in locally Eichler orders* November 2019  
Number Theory Seminar, Orono, Maine
- *Bass and Basic Orders* November 2019  
Number Theory Day, Bowdoin College, Brunswick, Maine
- *Metacommutation of primes in locally Eichler orders* October 2019  
Maine-Quebec Number Theory Conference, Orono, Maine
- *Quaternion Algebras and the Metacommutation Problem* March 2019  
Bates Math Talks, Bates College, Lewiston, ME
- *Bass and Basic Orders* February 2019  
Graduate Student Seminar, Dartmouth College, Hanover, NH
- *Metacommutation of Primes in Central Simple Algebras* January 2019  
Joint Mathematics Meetings, Baltimore, MD
- *Metacommutation of Primes in Central Simple Algebras* October 2018  
Maine-Quebec Number Theory Conference, Quebec City, Quebec
- *Metacommutation of Primes in Central Simple Algebras* June 2018  
Algebra and Number Theory Seminar, Dartmouth College, Hanover, NH.
- *Metacommutation of Primes in Quaternion Orders of Class Number One* October 2017  
Maine-Quebec Number Theory Conference, Orono, Maine

## GRANTS AND FELLOWSHIPS

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- AMS Graduate Student Travel Grant (\$500) to present at JMM 2019 January, 2019
- Dartmouth Graduate Fellowship 2014 - 2019