

Rima Chatterjee

Curriculum Vitae

Louisiana State University
Department of Mathematics
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Research Interests

Contact
geometry

Low-dimensional
topology

Interactions between Khovanov Homology and Heegaard Floer Homology

Education

- August. 2015 **Ph.D. in Mathematics**, *Louisiana State University (LSU)*.
- present Advisor: David Shea Vela-Vick
- Dec. 2016 **Master of Science in Mathematics**, *LSU*.
- May 2014 **Master of Science in Mathematics**, *Indian Institute of Technology, Kanpur (IITK)*, Kanpur, India.
- May 2012 **Bachelor of Science**, *Jadavpur University*, Kolkata, India.
Major: Mathematics
Minor: Computer Science and Statistics

Talks

- October 2018 Vertically Integrated Research, LSU, "Grid Homology".
- January 2018 Contact Topology Group, LSU, "Transverse Universal Link".
- October 2017 Contact Topology Group, LSU, "On Spectral Sequence from Khovanov Homology to Heegaard Floer Homology of Double Branched Cover"
- June 2017 Contact Topology Group, LSU, "Characteristic Foliation and Convex Surface".
- October 2016 Contact Topology Group, LSU, "Introduction to Khovanov Homology".
- April 2016 Communicating Math, LSU, "Alexander Polynomial".

Teaching

- Fall 2018 **Instructor for MATH 1021 College Algebra, 3 Sections**.
My responsibilities include giving weekly lectures and tutoring at the Math Lab.
- Summer 2018 **Instructor for MATH 1550**.
My responsibilities include giving lectures, setting up quizzes and tests and grading them.
- Spring 2018 **MATH 7550 Differential Geometry**, Grader.
MATH 4700 History of Mathematics, Grader.
- Fall 2017 **MATH 1550 Calculus(Recitation)**.
My responsibility was to hold problem sessions for two sections, grading weekly quizzes and exams.
MATH 7510 Topology I, Grader.
- Summer 2017 **Instructor for Topology Qualifier Lab**.
My responsibilities include lecturing and doing problems from the question bank. Give mock exams and grade those.
- Spring 2017 **MATH 1552 Analytic Geometry and Calculus II (Tutoring)**.
This required holding problem sessions and occational lecturing.

- Fall 2016 **MATH 1550 Calculus I (Tutoring)**.
This required holding problem sessions and occational lecturing.
- Summer 2016 **Instructor for Topology Qualifier Lab**.
My responsibilities include lecturing and doing problems from the question bank. Give mock exams and grade those.
- Spring 2016 **MATH 2057 Multivariable Calculus**, Teaching Assistant.
- Fall 2015 **MATH 1550 Calculus I** , *Grader*.
MATH 1552 Analytic Geometry and Calculus II , *Grader*.

Conferences

Past

- July 2018 The topology and geometry of low-dimensional manifolds: a celebration of the mathematics of Bob Gompf at UT Austin, Texas
- May 2018 Perspectives on Bordered Heegaard Floer Theory in Montreal, Canada
- Jan. 2018 Heegaard Floer Workshop at UCLA, Los Angeles
- Dec. 2017 Tech Topology Conference at Georgia Tech., Atlanta
- Nov. 2017 58th Geometry and Topology Conference at UT Austin, Texas
- Aug. 2017 Symplectic Geometry Workshop at Isaac Newton Institute, UK
- July 2017 Summer School in Floer Theory and Homotopy Theory at UCLA, Los Angeles
- June 2016 Student Topology Workshop at Georgia Tech., Atlanta
- June 2016 Topology in dimension 3.5 at Rice University, Houston

Awards

- May 2018 Departmental Travel Grant
- January 2018 Departmental Travel Grant
- April 2016 Pasquale Porcelli Award for Graduate Academic Excellence
- June 2014 Proficiency Medal for best performing student in Masters Examination
- May 2014 Jasmine Mohiuddin Scholarship
- Feb. 2014 Scholarship for highest GPA in first year of MSc.
- Feb. 2014 Scholarship for highest GPA in first year of Msc.
- May 2012 Academic Distinction in Major and Minor.
- 2009-2014 SHE Scholarship

Languages

English Fluent

Activities

- 2018-Present Committee Member - Mathematics Student Colloquium, LSU
- 2016-Present Member and Organizer - Contact Topology Group, LSU
- 2016-Present Committee Member - GEAUX Orientation Program, LSU
- 2018 Proctor/Grader - High School Math Contest, LSU
- 2015-Present Member and Organiser - Association for Women in Mathematics, LSU

Professional Affiliations

- 2015-present American Mathematical Society
- 2015-present AWM

Computer skills

Mathematical \LaTeX

Programming Languages
C, C++, MATLAB

References

David Shea Vela-Vick, LSU

James Oxley, LSU (Teaching)

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