

Ronno Das | Curriculum Vitae

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Education

University of Chicago <i>Doctor of Philosophy in Mathematics (in progress)</i> advisor – Benson Farb topic proposal – “Configuration spaces and algebraic functions”	Chicago, USA 2015 – current
Chennai Mathematical Institute <i>Master of Science in Mathematics</i> GPA – 9.94/10	Chennai, India 2013 – 2015
Chennai Mathematical Institute <i>Bachelor of Science (Hons.) in Mathematics and Computer Science</i> GPA – 9.86/10	Chennai, India 2010 – 2013

Masters thesis

title: Salvetti complex construction for manifold reflection arrangements

supervisor: Priyavrat Deshpande

Publications

Das, Ronno and Priyavrat Deshpande (2016). “Coxeter transformation groups and reflection arrangements in smooth manifolds”. In: *Journal of Homotopy and Related Structures* 11 (3), pp. 571–597. DOI: 10.1007/s40062-015-0117-8. arXiv: 1408.3921 [math.AT].

Teaching experience

mentor for REU: University of Chicago REU, summer 2016 ([link](#)). Supervised 4 projects by undergraduates, resulting in expository papers

mentor for directed reading program: University of Chicago, autumn 2016. Supervised research project by an undergraduate ([link](#)).

teaching assistant:

- Introduction to Differentiable Manifolds and Integration on Manifolds – spring 2017
- Basic Functional Analysis – winter 2017
- Introduction to Algebraic Geometry – autumn 2016
- Topics in Topology – spring 2015
- Algebraic Topology – fall 2014

- Logic – fall 2014
- Topology – spring 2014
- Algebra I – fall 2013
- Advanced Programming (Python) – spring 2012

tutor: Differential Topology – Annual Foundational School II, Kerala School of Mathematics, May 2014

Research interests

Algebraic Topology: topology of configuration-like spaces, representability of algebraic functions, reflection arrangements

Conferences and seminars

Combinatorial and Toric Homotopy – Young Topologist Seminar **Singapore**
Institute for Mathematical Sciences, National University of Singapore *11–19 August 2015*

Undergraduate research projects

Nielsen–Thurston classification of automorphisms **Paris, France**
under Maxime Wolff, Institut de Mathématiques de Jussieu *Summer 2013*
 Reading project on “Automorphisms of Surfaces after Nielsen and Thurston” by Andrew Casson and Steven Bleiler

Mostow rigidity theorem **Chennai, India**
under Dishant Pancholi, Chennai Mathematical Institute *Summer 2012*
 Reading project on “Lectures on Hyperbolic Geometry” by Riccardo Benedetti and Carlo Petronio

Brouwer’s fixed point theorem **Kolkata, India**
under Brati Sankar Chakraborty, Indian Statistical Institute *Summer 2011*
 Reading project on two elementary proofs of Brouwer’s fixed point theorem

Scholarships and awards

McCormick Fellowship **Chicago, USA**
University of Chicago, Department of Mathematics *2015–current*

Rao Fellowship **Chicago, USA**
University of Chicago, Physical Sciences Division *2015–2016*
 awarded to recognize and support an outstanding student who is a citizen of India

CMI Medal of Excellence **Chennai, India**
Chennai Mathematical Institute *2015*
 awarded for highest rank in the graduating class for MSc degree

CMI Medal of Excellence **Chennai, India**
Chennai Mathematical Institute *2013*
 awarded for highest rank in the graduating class for BSc degree

KVPY National Scholarship in Basic Sciences **India**
Indian Institute of Science *2010–2013*

awarded to around 50 Indian students every year

National Talent Search Scholarship

National Council of Educational Research and Training

awarded to around 1000 Indian students every year

India
2008-2010

Olympiads and contests

ACM International Collegiate Programming Contest 2012

Honorable Mention (team)

Warsaw, Poland

May, 2012

International Mathematical Olympiad 2010

Honorable Mention

Astana, Kazakhstan

July, 2010

Programming language skills

proficient: \LaTeX , Python

familiar with: Mathematica, Haskell, html/css, Java, android, C/C++, Javascript