Ronno Das | Curriculum Vitae

5734 S University Ave – Chicago, IL 60637, USA

+1 (872) 222-8576 • ronno@math.uchicago.edu
ronnodas@gmail.com

Education

University of Chicago — **Chicago, USA**
Doctor of Philosophy in Mathematics (in progress) — *2015 – current*
advisor – Benson Farb
topic proposal – "Configuration spaces and algebraic functions"

Chennai Mathematical Institute — **Chennai, India**
Master of Science in Mathematics — *2013 – 2015*
GPA – 9.94/10

Chennai Mathematical Institute — **Chennai, India**
Bachelor of Science (Hons.) in Mathematics and Computer Science — *2010 – 2013*
GPA – 9.86/10

Publications

Das, Ronno (in prep.). "The space of cubic surfaces equipped with a line".

Das, Ronno and Priyavrat Deshpande (Sept. 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].

Masters thesis

title: Salvetti complex construction for manifold reflection arrangements

supervisor: Priyavrat Deshpande

Research interests

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

Conferences and seminars

No Boundaries: Groups in Algebra, Geometry, and Topology — **Chicago**
University of Chicago — *27–29 October 2017*
A Celebration of the Mathematical Contributions of Benson Farb

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

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

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 *2015–2017*

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 **India**
National Council of Educational Research and Training *2008–2010*
awarded to around 1000 Indian students every year

Olympiads and contests

ACM International Collegiate Programming Contest 2012 **Warsaw, Poland**
Honorable Mention (team) *May, 2012*

International Mathematical Olympiad 2010 **Astana, Kazakhstan**
Honorable Mention *July, 2010*

Programming language skills

proficient: LaTeX, Python

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