

Curriculum Vitae

Personal data *Name:* Atreyee Bhattacharya
Sex: Female
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Nationality: Indian
Date of Birth: January 5, 1983.

Contact Department of Mathematics
Indian Institute of Science
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Education Pursuing *Ph.D.* in Mathematics,
(PhD thesis submitted on May 9, 2013)
Department of Mathematics,
Indian Institute of Science Bangalore, India.
Thesis Title: On an ODE associated to the Ricci flow
Adviser: Prof. Harish Seshadri.

M.Sc. (Mathematics) (2 years) 2006
University of Calcutta, India
Percentage of Marks(%): 85.8.

B.Sc. (Mathematics(Hons.)) (3 years) 2004
Presidency College, Kolkata,
University of Calcutta, India
Percentage of Marks(%): 70.5
Minor: *Physics, Chemistry.*

Higher Secondary Examination 2001
West Bengal Council of Higher Secondary Education,
Percentage of Marks(%): 83.

Secondary Examination 1999
West Bengal Board of Secondary Education,
Percentage of Marks(%): 85.4

Research Interests

Riemannian geometry, Ricci flow, geometric analysis.

Teaching Experiences

- Teaching Assistant *Topology-II* for 1st year Ph.D. students and 2nd year integrated Ph.D. students, Aug-Dec 2009, Indian Institute of Science Bangalore.
- Teaching Assistant *Algebra II* for 1st year Ph.D. students and 2nd year integrated Ph.D. students, Jan-Apr 2010, Indian Institute of Science Bangalore.
- Teaching Assistant *Topology I* for 1st year integrated Ph.D. students, Aug-Dec 2010, Indian Institute of Science Bangalore.
- Teaching Assistant *Analysis and Linear Algebra I* for 1st year undergraduate students, Aug-Dec 2011, Indian Institute of Science Bangalore.
- Tutor *ATM School on Riemannian Geometry* at TIFR-CAM Bangalore during June 16-28, 2012.
- Teaching Assistant *Lie algebra and their Representation* for 1st year Ph.D. students and 2nd year integrated Ph.D. students, Aug-Dec 2012, Indian Institute of Science Bangalore.

Publications

1. *A gap theorem for Ricci-flat 4-manifolds*, (jointly with Harish Seshadri), (preprint) arXiv:1210.7488.
2. *Some Unstable Critical Metrics for $L^{\frac{n}{2}}$ -norm of the Curvature Tensor*, (jointly with Soma Maity), (preprint) arXiv:1211.5774. To appear in Mathematics Research Letters.
3. *On the Curvature ODE associated to the Ricci flow*, (preprint) arXiv: 1310.4618.

Conference Presentation

1. ATM conference on Riemannian Geometry 2012 at TIFR-CAM, Bangalore during July 27-28, 2012.
2. Annual conference of Ramanujan Mathematical Society at REVA Institute of Technology, Bangalore during June 27-30, 2013.

Conferences/Workshops attended

1. *International Workshop and Conference on Surface Mapping Class Groups and Related Topics* at North Eastern Hill University, Shillong during June 16-28, 2008.
2. *Advanced Training in Mathematical Schools on Atiyah-Singer Index Theorem* at IIT Bombay during 6th July - 1st August, 2009.
3. *ICM Satellite Conference on Geometry, Topology and Dynamics in Negative Curvature* at RRI Bangalore during August 2-7, 2010.
4. *ICM Satellite Conference on Geometric topology and Riemannian Geometry* at IISc Bangalore during August 12-15, 2010.
5. *ICM 2010* at Hyderabad during August 19-27, 2010.
6. *ATM School on Riemannian Geometry* (as tutor) at TIFR-CAM during July 16-28, 2012.

References

1. Prof. Harish Seshadri,
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2. Prof. C. S. Aravinda,
TIFR Centre for Applicable Mathematics,
Sharadanagara, Bangalore - 560 065.
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E-mail: aravinda@math.tifrbng.res.in
3. Prof. Siddhartha Gadgil,
Department of Mathematics,
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Teaching References

1. Prof. Kaushal Verma
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2. Prof. Basudeb Datta
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