

Curriculum vitae

Gourab Ray

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Contact

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Area of interest

Probability theory, currently focussing on various aspects of random planar maps. Also interested in random walks, percolation, coarse random geometry and random processes on graphs.

Education

- **PhD** in Mathematics(2010-)
University of British Columbia
Thesis Supervisor- Dr. Omer Angel.
- **M.Stat**(2008-2010) from Indian Statistical Institute, Kolkata, India.
Dissertation title: Urn Models.
Dissertation supervisor: Dr. Krishanu Maulik.
- **B.Stat** (2005-2008) from Indian Statistical Institute, Kolkata, India.

Publications:

- Geometry and percolation on domain Markov half planar maps. *In preparation.*
- L^p convergence of Multicolor Urn models with balanced replacement matrices (with Krishanu Maulik), *In preparation.*
- Large unicellular maps in high genus. *Submitted.* <http://arxiv.org/abs/1307.1224>

- The local limit of unicellular maps in high genus (with Omer Angel, Guillaume Chapuy and Nicolas Curien). In *Elec. Comm. Probab.* Arxiv link: <http://arxiv.org/abs/1309.6254>
- Classification of half planar maps (with Omer Angel). In *Ann. Probab.* Arxiv link: <http://arxiv.org/abs/1303.6582>

Talks and presentations

- Half planar triangulations, *PIMS M-prime summer school in probability*, 2012.
- Domain Markov half planar triangulations. Probability seminar, UBC, 2012.
- Domain Markov half planar triangulations. Probability seminar. ISI, Kolkata, India, 2012.
- Large unicellular maps in high genus. *Geometry and Analysis of Random Processes*, UK Probability Easter Meeting, Cambridge, 2013
- Half planar maps and unicellular maps. *Random planar maps seminar*, University of Zurich, 2013.
- Domain Markov half planar maps. *Journées Cartes*, Saclay, France, June 20-21, 2013.
- Large unicellular maps in high genus. Probability seminar, ISI, Kolkata, India, 2013
- Large unicellular maps in high genus. Probability seminar, ISI, Bangalore, India, 2013

Conferences and seminars

- *Saint-Flour summer school in probability*, Saint Flour, France, July 2011.
- *Pacific Northwest probability seminar*, Seattle, US, October 2011
- *PIMS-Mprime summer school in probability*, Vancouver, Canada, June 2012.
- *Geometry and Analysis of Random Processes*, UK Probability Easter Meeting, Cambridge, UK, April 2013.
- *MFO, Oberwolfach seminar on random networks*, Oberwolfach, Germany, May 2013.
- *Journées Cartes*, June 20-21, 2013, Saclay, France.

Teaching

- Course instructor, Math 105, *Integral Calculus with Applications to Commerce and Social Sciences*, W 2013, term 2.
- Graduate teaching assistant. 2010-2013 (involved in tutoring students in the Math Learning Centre).
- Workshop instructor for MATH 184, 180. Fall 2013.

Languages

English, Bengali, Hindi.

Computer languages: C, MATLAB.

References

- Dr. Omer Angel (PhD. advisor), University of British Columbia, Vancouver. (*e-mail: angel@math.ubc.ca*)
- Dr. Asaf Nachmias, University of British Columbia, Vancouver. (*e-mail: asafnach@math.ubc.ca*)
- Dr. Gordon Slade, University of British Columbia, Vancouver. (*email: slade@math.ubc.ca*)

Extra curricular and other activities

- Convenor of the Literary Affairs committee, Indian Statistical Institute, Kolkata, 2008.
- Acoustic rhythm guitar player in various concerts in Indian Statistical Institute, Kolkata (2006-10).
- Drama club member, Indian Statistical Institute, Kolkata (2008-10).
- Interested in hiking, table tennis.