ADITYANAND GUNTUBOYINA

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EDUCATION

- **Ph.D., Statistics, Yale University** May 2011 (expected)
    Dissertation: *f-divergences and Minimaxity*
    Advisor: Prof. David Pollard

- **M.Stat., Indian Statistical Institute** May 2006
    Specialization: Mathematical Statistics and Probability

- **B.Stat. (Honors), Indian Statistical Institute** May 2004

PUBLICATIONS

Accepted Journal Papers

1. Adityanand Guntuboyina, "Lower bounds for the minimax risk using f-divergences, and applications," to appear in *IEEE Transactions in Information Theory*, 2011.

2. Adityanand Guntuboyina and Hannes Leeb, "Concentration of the spectral measure of large Wishart matrices with dependent entries," *Electronic Communications in Probability,* vol. 14, 334-342, 2009.

Peer-Reviewed Conference Paper

3. Adityanand Guntuboyina, "Minimax lower bounds via f-divergences," *Proceedings of the 2010 IEEE Symposium on Information Theory (ISIT)*, 1340-1344, Austin, TX, June 13-18, 2010.

Articles in Preparation

4. Adityanand Guntuboyina and Hannes Leeb, "Shrinkage estimation of a univariate normal mean," submitted to *Bernoulli,* May 2010.

5. Adityanand Guntuboyina, "Optimal rates of convergence for the reconstruction of convex bodies from noisy support function measurements," to be submitted.

6. Adityanand Guntuboyina, Russell Barbour and Robert Heimer, "Bootstrap based population mean estimators for Respondent Driven Sampling," to be submitted.

AWARDS

- *Francis J. Anscombe Award for Outstanding Academic Performance*
  May 2008, Department of Statistics, Yale University.

- *K. C. Mahindra scholarship for studies abroad* awarded by the K. C. Mahindra
  Education Trust, Mumbai, India. July 2006

PRESENTATIONS

- *Minimax lower bounds via f-divergences.* IEEE International Symposium on
  Information Theory, Austin, TX, USA, June 2010.

- *Minimax lower bounds.* Statistics and Mathematics Unit, Indian Statistical Institute,
  Kolkata, July 2010.

- *New estimators for Respondent Driven Sampling*. RDS 2.0 Symposium, Center for
  Interdisciplinary Research in AIDS, Yale University, April 2010.

WORK EXPERIENCE

- **AT&T Shannon Labs, Florham Park, NJ** **(**Summer, 2007**)**
  Work Activity: *Predictive Modeling* (using data sets of public company financial
  metrics and two years of AT&T customer usage activity to build a
  forecasting model for future growth)
  Supervisor: Dr. Robert Potok

PROFESSIONAL EXPERIENCE

- **Refereeing for Journals and Conferences**: Statistica Sinica, International
  Symposium on Information Theory 2010.

- **Membership in Professional Organizations**: IMS, ASA & IEEE

TEACHING EXPERIENCE

Teaching Fellow for the following courses at the Department of Statistics, Yale
University (duties included teaching weekly review sessions, maintaining office hours
and grading):

- STAT 241/ 541: **Probability Theory** (Fall 2008; Instructor: Hannes Leeb)

- STAT 330/600: **Measure Theoretic Probability** (Spring 2009 & Spring 2010;
  Instructor: David Pollard)

- STAT 106/506: **Introduction to Statistics: Data Analysis** (Fall 2009; Instructors: Jonathan Reuning-Scherer & Harrison Zhou)

- STAT 312/612: **Linear Models** (Fall 2009; Instructor: Balaji Raman)

- STAT 603: **Stochastic Calculus** (Spring 2010; Instructor: David Pollard)

Statistics Tutor, Saybrook College, Yale Residential Math and Science Tutoring Program, Yale University. (This program has tutors in the math and science subjects that the undergraduate students can approach for help in their courses.)

<u>REFERENCES</u>

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