ANKITA JAIN

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Profile

Strong math and statistics background with interest in applications of data analysis, statistics, stochastic modeling, and sampling. Passionate about explaining statistical concepts to non-technical audience.

Professional Experience

Assistant Professor Specialist Aug. 2012 – Aug 2016
Dept. of Applied and Computational Mathematics and Statistics (ACMS),

- Developed and taught specialization courses: *Stochastic Finance* (10 students; Ph.D. & Masters), *Stochastic Modeling* (15 students; Grad & Undergrad), *Mathematical Statistics* (40 students).
- Course Chair for *Statistics for pre-medicals* (200 students). Led a team of 2 professors and 3 TAs, and mentored ~60 statistics projects per semester based on real-life applications.
- Actively researched in the field of stochastic modeling; Published 2 papers and presented in 3 conferences.
- Mentored 7 undergraduate students on Stochastic Modeling, Linear Regression and Parameter Estimation.
- Provided feedback on new hire candidates, organized teaching seminars for graduate students.

Data Analyst Intern June - Aug. 2010
Schlumburger, Houston, TX

- Developed a prediction model to reduce costs ($ 2+ Million) by estimating 'time required to gather seismic data' based on multiple factors: weather, technical issues, size of survey, spatial resolution.

Strategy Analyst Intern June - Aug. 2008
Horizon Wind Energy, Houston, TX

- Developed a portfolio management tool to minimize 'Value At Risk (VAR)' of a growing wind energy portfolio (3-person data analysis team). Forecasted market prices and turbine wind power generation using historical wind assessment data.

Education

- Ph.D., Mathematics, Advisor: Dr. Ilya Timofeyev Aug. 2009 – Dec. 2012
  University of Houston, TX; GPA: 4.0
  Thesis: Data-driven Techniques for Estimation and Stochastic Mode Reduction of Multi-Scale Systems

- M.S., Applied Mathematics (with Minor in Finance) Aug. 2006 – Aug. 2009
  University of Houston, TX; GPA: 3.92

- B.A., Mathematics Jul. 2003 – Jul. 2006
  St. Stephens College, Delhi University, India

Technical Skills

- Languages: Python (numpy, scipy, pandas), R, SQL, Matlab, Linux, C/C++, Mathematica, LATEX, Horizon Wimba, Camtasia, Wink 2.0, Geogebra.
- Statistical Methods: Time series, Regression models, Hypothesis testing and confidence intervals, Stochastic differential equations (SDEs).
- Actively pursuing Udacity Data Analyst Nanodegree: Python (numpy, pandas for 1D, 2D data), Data Wrangling with MongoDB or SQL, Data Analysis with R, Intro to Machine Learning, Data visualization and D3.js, A/B Testing.