



Flat No. 3 [REDACTED] Maharashtra, 4 [REDACTED] 7

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Areas of Expertise

Academic Qualifications



Aug. 2013 - PRESENT

- M.Sc in Applied Mathematics*

 IndiaVIDY  UNIVERSITY

Aug. 2010 - July 2012

- B.Sc in Mathematics*

 IndiaVIDY  UNIVERSITY

Aug. 2007 - July 2010

- *Major*: Mathematics
- *Minors*: Physics, Chemistry

Honors & Awards

2012

Junior Research Fellowship,

CSIR-UGC NET

2013

All India Rank 30.

GATE

Skills

Finance Derivatives, Market and Credit Risk Analysis, Modeling

Mathematics Time Series Analysis, Statistics, Probability Theory, Stochastic Calculus, Data Science, ODE's and PDE's, Simulations

Programming Python, Cython, R, MATLAB, C, Sage

Documentation L^AT_EX, MS Word, MS Excel, MS Office

Languages English, Hindi, Bengali



Publications

Risk sensitive portfolio optimization in a jump diffusion model with regimes

2018

SIAM J. CONTROL OPTIM

- Authors: [REDACTED] Das, A [REDACTED] G [REDACTED] & N [REDACTED] R [REDACTED]
- We have solved an optimal investment problem using an utility function based on risk tolerance of an investor in a regime switching market. We find an expression for optimal strategy.

Pricing derivatives in a regime switching market with time inhomogeneous volatility

2018

STOCHASTIC ANALYSIS & APPLICATIONS

- Authors: [REDACTED] Das, A [REDACTED] G [REDACTED] & [REDACTED] P [REDACTED]
- This paper studies a European type basket option pricing in a regime switching market. We find an expression for a locally risk minimizing hedging strategy. We also calculate the measure of risk.

Testing of Binary Regime Switching Models using Squeeze Durations

2018

PREPRINT

- Authors: [REDACTED] Das & A [REDACTED] G [REDACTED]
- In this paper, we have proposed a statistical technique to test the regime switching models.

Workshop & Conferences

- Attended @In-house symposium on Finance 2015, IIS [REDACTED] May 2015.
- Attended @Workshop on SPDE and LPS, IIS [REDACTED] Dec 2015.
- Attended @Workshop on Applied Probability, IIT [REDACTED] Jan 2016.
- Paper presentation @Short Term Workshop on Financial Engineering, IIT [REDACTED] May 2016.
- Presented a poster @Conference on Statistical Methods in Finance, Chennai [REDACTED] Institute, Dec 2016.
- Presented a poster @Inter IIS [REDACTED] Mathematics Meet, IIS [REDACTED] May 2017.
- Attended @Workshop on Numerical Techniques for PDEs, VN [REDACTED] July 2017.
- Presented a poster @Workshop on Mathematical finance, IIS [REDACTED] July 2018.

Declaration

I, [REDACTED] Das, hereby declare that the above informations provided by me are true to the best of my knowledge and belief.