

Soudeep Deb

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SUMMARY

- **Senior Lead Data Scientist** at NBC Universal Media, LLC.
- 10+ years of training and experience in Statistics and Data Science.
- Expertise in statistical inference, data analysis, and developing statistical methodologies for real life problems.
- Primary areas of research are time series data, forecasting, spatial modeling, and sports analytics.
- Proficient in learning new procedures and taking lead in diverse projects.

PROFESSIONAL EXPERIENCE

NBC Universal Media, LLC, New York, NY, USA.

Sep 2018 - present

- Position: Senior Lead Data Scientist.
- Responsibility: Modeling time series data for TV shows, Provide forecast for programs from different channels, and to gather insights about viewership and ratings.

EDUCATION

University of Chicago

Sep 2013 - Aug 2018

- PhD in Statistics

Indian Statistical Institute

Jul 2008 - Jun 2013

- Master of Statistics (Hons.) with distinction Total percentage score: 81.0%
- Bachelor of Statistics (Hons.) with distinction Total percentage score: 83.4%

OTHER EXPERIENCE

The Alan Turing Institute, London, United Kingdom.

Dec 2017

- Position: Delegate for the Data Study Group.
- Project: Geospatial time-series analyses to predict demand for a global satellite communications network.

Instituto de Pesquisa Ambiental do Amazônia, (IPAM), Brasília, Brazil.

Jun - Aug 2016

- Position: Summer intern.
- Project: Hydropower Construction and Deforestation in the Tapajós River Basin: Linking Forest Cover to Changes in Water Balance.

Eidgenössische Technische Hochschule (ETH), Zurich, Switzerland.

May - Jul 2013

- Position: Summer research intern.
- Project: Moment-Closure Approximations for Mass-action Models in Chemical Kinetics.

Ministry of Statistics and Programme Implementation, Govt. of India.

May 2012

- Position: Team member.
- Project: Forecasting of Foreign-tourist Arrivals in India.

Johns Hopkins University, Baltimore, United States of America.

May - Jul 2011

- Position: Summer research intern.
- Project: Estimating the genetic relationship between two random individuals from genome sequence data.

AWARDS & ACHIEVEMENTS

- Recipient of International House Ralph W. Nicholas Fellowship Award, University of Chicago. 2017-18
- Recipient of Graduate Council Travel Grant, University of Chicago. 2017
- Senior Consultant Award at the Department of Statistics, University of Chicago. 2016-17
- Selected among 30 students from India for International Mathematical Olympiad Training Camp. 2007, 2008
- Recipient of Kishore Vaigyanik Protsahan Yojana scholarship, Indian Institute of Science. 2007 - 2013

TECHNICAL STRENGTHS

- **Proficient:** R, MATLAB, L^AT_EX, Microsoft Office.
- **Learning:** Python, SQL.

PUBLICATIONS AND ONGOING RESEARCH

- **Deb, S.**, Tsay, R. S.; Spatio-temporal Models with Space-time Interaction and Their Applications to Air Pollution Data; Under revision, *Statistica Sinica*, Preprint: <https://arxiv.org/abs/1801.00211>.
- **Deb, S.**, Dey, D. (2017); Spatial Modeling of Shot Conversion in Soccer to Single out Goalscoring Ability; Under revision, *Journal of Sports Analytics*, Preprint: <https://arxiv.org/abs/1702.05662>.
- **Deb, S.**, Pourahmadi, M., Wu, W. B. (2017); An Asymptotic Theory for Spectral Analysis of Random Fields; *Electronic Journal of Statistics*, Vol. 11, No. 2, p. 4297-4322.
- **Deb, S.** (2017); VAR model based clustering method for multivariate time series data; In XXXIV. International Seminar on Stability Problems for Stochastic Models, p. 28.
- Chazin, H., **Deb, S.**, Falk, J., Srinivasan, A. (2017); New Statistical Approaches to Intra-individual Isotopic Analysis and Modeling Birth Seasonality in Studies of Herd Animals; To appear, *Archaeometry*.
- Prickett, K.C., Guterrez, C., **Deb, S.**; U.S. Family Firearm Ownership and Firearm-Related Child Mortality from 1976 to 2014, To appear, *Pediatrics*.
- Zechner, C., **Deb, S.**, Koepl, H. (2013); Marginal Dynamics of Stochastic Biochemical Networks in Random Environments; In Control Conference (ECC), 2013 European, p. 4269-4274, IEEE.
- Ghosh, S., **Deb, S.** (2013), A Clustering Approach for Mapping Rare Variants Based in Mutual Association. *Human Heredity*, Vol. 76, No. 2, pp. 98-98.

OTHER INFORMATION

Languages

- Fluent: English, Bengali, Hindi.
- Working knowledge: Urdu, Portuguese.

Positions of Responsibility

- Student Photographer, Department of Statistics, University of Chicago.
 - Event Chief, Annual techno-cultural fest *Integration 2013*, Indian Statistical Institute.
 - Student Representative, Cultural Committee, Indian Statistical Institute.
 - Literary Affairs Committee Convener, Boys' Hostel, Indian Statistical Institute.
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