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Debangan Dey

Education

Johns Hopkins Bloomberg School of Public Health, Baltimore, USA
PhD candidate in Biostatistics — *Aug 2017 - May 2022 (Expected)*

Indian Statistical Institute, Kolkata, India
Master of Statistics, First Division with Distinction — *July 2015 - May 2017*

Indian Statistical Institute, Kolkata, India
Bachelor of Statistics, First Division with Distinction — *July 2012 - May 2015*

Professional and Research Experience

Amazon
Applied Scientist Intern — *May'21 - Aug'21*
- Invent statistical tools to improve search experimentation in Amazon search relevance team.

National Institute of Mental Health
Pre-doctoral fellow — *Sep '19 - May '21, Current*
- Lead statistical analyses of mobile health data in mMarch consortium (22 sites across the globe).

Baltimore City Health Department - JHSPH Data Analysis Support Team
Analyst — *Apr '20 - Sep '20*
- Designed COVID-19 risk scores to identify unmet testing needs within Baltimore.

Johns Hopkins Bloomberg School of Public Health
Graduate student — *Current*
- Develop methods to jointly model intensive mixed longitudinal data.
- Build graphical model methods to analyze highly multivariate spatio-temporal data.

Summer Intern under Prof. Vadim Zipunnikov — *May '16 - July '16 & May '15 - July '15*
- Conducted research in Wearables to investigate multi-faceted health impact of physical activity.

Key publications and repositories

Varma V., **Dey D.**, Leroux A., Di J., Urbanek J., Xiao L., Zipunnikov V., Re-evaluating the effect of age on physical activity over the lifespan. (2017) **Preventive Medicine,101, pp.102-8.**(*Article featured at TIME, Washington Post, WSJ, BBC, WPYR and others*)

Dey D., Deb S., The Shooting Prowess: Spatial modelling of shots in soccer to single out goalscoring ability. (2019). **Journal of Sports Analytics, 5.4: 281-297**.

Kaufman M., **Dey D.**, Crainiceanu C., Dredze M., #MeToo and Related Google Inquiries into Sexual Violence: Does a Hash-tag Campaign sustain Information Seeking? (2019) **Journal of interpersonal violence, p.0886260519868197**.

Dey D., Leroux A., The good, the bad and the ugly of the beautiful game: micronalysing FIFA World Cup 2018 (2019) **Github**.

Dey D., Zipunnikov V., Connecting population-level AUC and latent scale-invariant R^2 via Semiparametric Gaussian Copula and rank correlations (2020) **Arxiv**(Received **Joint Statistical Meetings 2020 paper award** from *American Statistical Association*)

Dey D., Datta A., Banerjee S. Graphical Gaussian Process Models for Highly Multivariate Spatial Data (2020) **Arxiv**(Received **Joint Statistical Meetings 2021 paper award** from SBSS, *American Statistical Association*)

Dey D., Zipunnikov V., Semiparametric Gaussian Copula Regression Modelling for Mixed Data Types (2020) Work in progress.

Skills

- **Technical strength:** Proficient in R, MATLAB, C++, LaTeX, HTML, Python.
- **Languages Known**: English, Bengali, Hindi; learning Spanish.

Extra-curricular activity

- One among five finalists at **US Soccer Hackathon 2018**, Chicago, USA, July 14-15, 2018.
- Progressed to the final round in **Economic Times Power of Ideas 2015 Challenge**, India's biggest hunt for innovative business ideas.
- Founder and chief-editor of **Sports-nova**, a multi-sports news website.
- **Hobbies**: Playing soccer, swimming, cooking, baking, traveling.