Suman Majumder

Department of Statistics

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Education

† *Indicates expected*

2016–2020 † Ph.D., Statistics, North Carolina State University

Thesis Title: Spatiotemporal inference and applications for large datasets

Advisor: Brian J. Reich

2014–2016 M.Stat., Indian Statistical Institute

2011–2014 B.Stat., Indian Statistical Institute

Experience

2020 Research Assistant, Department of Entomology and Plant Pathology, North Carolina State University

2018–2019 Teaching Assistant, Department of Statistics, North Carolina State University

2017–2018 Research Assistant, The Statistical and Applied Mathematical Sciences Institute (SAMSI)

2016–2017 Teaching Assistant, Department of Statistics, North Carolina State University

Honors and Awards

2020	ASA ENVR Student Paper Award Winner
2018 - current	Member of NC Alpha chapter of Statistics, *Mu Sigma Rho*
2011 - 2016	KVPY Scholarship, Dept. of Science & Technology, Govt. of India

Publications

Peer-Reviewed Journals

[1] **Majumder, S.**, Biswas, A., Roy, T., Bhandari, S., and Basu, A. (2020); Statistical Inference Based on a New Weighted Likelihood Approach; Metrika.

[2] Haskett, M. E., **Majumder, S.**, Kotter-Grühn, D. and Gutierrez, I. (2020); The role of university students' wellness in links between homelessness, food security, and academic success. Journal of Social Distress and the Homelessness

[3] Biswas, A., **Majumder, S.**, Niyogi, P. G. and Basu, A. (2020); A Weighted Likelihood Approach to Problems in Survival Data. Sankhyā.

[4] Haskett, M. E., Kotter-Grühn, D. and **Majumder, S.** (2020); Prevalence and correlates of homelessness and food insecurity among university students Journal of College Student Development, 61(1), 109-114.

[5] Biswas, A., Roy, T., **Majumder, S.**, and Basu, A. (2015). A new weighted likelihood approach. Stat, 4(1), 97-107.

Under Review

[1] **Majumder, S.**, Guan, Y., Reich, B. J., O'Neill, S. and Rappold, A. G. (2019+); Statistical Downscaling with Spatial Misalignment: Application to wildland Fire $PM_{2.5}$ Concentration Forecasting; *Submitted, Journal of Agricultural, Biological and Environmental Statistics* ArXiv.

Technical reports

[1] Biswas, A., Niyogi, P. G., **Majumder, S.**, Bhandari, S. K., Ghosh, A., and Basu, A. (2018). Theoretical Properties of a New Weighted Likelihood Estimator for Right Censored Data.

Presentations

Papers

[1] **Majumder, S.**, Guan, Y., Reich, B. J. & Rappold, A. G.; Statistical Downscaling with Spatial Misalignment: Application to Wildland Fire $PM_{2.5}$ Concentration Forecasting; ENVR Student Paper Awards Section, Joint Statistical Meetings, 2020.

[2] **Majumder, S.**, Biswas, A., Roy, T., & Basu, A.; Statistical Inference Based on a New Weighted Likelihood Approach; International Conference on Robust Statistics, Kolkata, India, 2015.

Posters

[1] **Majumder, S.**, Guan, Y., Reich, B. J. & Rappold, A. G.; Statistical Downscaling with Spatial Misalignment: Application to Wildland Fire $PM_{2.5}$ Emissions Forecasting; Poster session presented at the 2018 IISA International Conference on Statistics, University of Florida, Gainesville, Florida, USA.

[2] **Majumder, S.**, Guan, Y., Reich, B. J. & Rappold, A. G.; Statistical Downscaling with Spatial Misalignment: Application to Wildland Fire $PM_{2.5}$ Emissions Forecasting; Poster session presented at 2018 SAMSI Graduate Poster Session, North Carolina State University, Raleigh, North Carolina, USA .

[3] **Majumder, S.**, Guan, Y., Reich, B. J. & Rappold, A. G.; Statistical Downscaling with Spatial Misalignment: Application to Wildland Fire $PM_{2.5}$ Emissions Forecasting; Poster session presented at 2019 IMS/ASA Spring Research Conference, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA.

[4] **Majumder, S.**, Guan, Y., Reich, B. J. & Rappold, A. G.; Statistical Downscaling with Spatial Misalignment: Application to Wildland Fire $PM_{2.5}$ Emissions Forecasting; Poster session presented at 2019 Joint Statistical Meetings, Denver, Colorado, USA.

Professional Activities

- Reviewer, International Social Science Journal, 2018.

Social Activities

- Volunteer, Service Raleigh, 2019.

- Head, Sponsorship Committee, Integration: the annual techno-cultural fest of Indian Statistical Institute, Kolkata, 2015.

- Head, Sponsorship Committee, Integration: the annual techno-cultural fest of Indian Statistical Institute, Kolkata, 2014.

- Member, Literary Activities Committee, Boys' Hostel of Indian Statistical Institute, 2013-2014.

- Head, Advertising Committee, Reunion Celebration Committee of Rahara Ramakrishna Mission Boys' Home, 2013.

- Member, Literary Activities Committee, Boys' Hostel of Indian Statistical Institute, 2012-2013.