

Subrata Paul – Résumé



Ph.D. Candidate

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Skills

Core	Statistical Genetics GWAS & Risk scores Genomics Machine Learning Computational Math	Programming Languages	R (Expert) Python (Advanced level) SQL, MATLAB, C++, FORTRAN (Intermediate)
Languages	English (Proficient) Bengali (Native) Hindi (Communication)	Others	Latex, Beamer Mathematica Data Visualization Inkscape

Experience:

May 2015	Research Assistant, CU Denver Project: Genetic Studies of Vitiligo
Ongoing	This project was for genetic risk prediction using polygenic risk score and disease sub-typing. My responsibility was pre-processing large scale genetics data, building risk scores, perform meta analysis and compare risk scores based on their AUC values.
May 2018 to July 2018	Collaboration with Department of Electrical Engineering, CU Denver Project: Real time energy price forecasting Applied artificial neural network on intuitively designed feature space for forecasting electricity price in real time.
June 2017 to July 2017	Research Assistant, CU Denver Project: Spatially-Indexed Functional Data This project focuses on the development of statistical tools to model the spatial and temporal structure of environmental and climate extreme events.

Education

Aug 2014	University of Colorado Denver PhD in Applied Mathematics
Ongoing	Concentration in Statistical Genetics. With in the course work I have learned advanced statistical models, Bayesian analysis, machine learning techniques, human genetics etc.
Aug 2012 to May 2014	Ball State University, Indiana, USA MS in Mathematics Focused on computation mathematics and statistics.
Mar 2003 to Dec 2007	University of Dhaka BS in Mathematics BS project: <i>On Binomial Asset Pricing Model with convergence to Black-Scholes model</i> . Discussed the power of binomial model on asset pricing and proven its strength by showing its convergence to Black-Scholes model.

Presentations

May 2019	Polygenic Risk Score and Modeling Heterogeneity, <i>NIEHS</i>
Oct 2018	Incorporation of Mixture Model into Association Studies, <i>CU Denver</i> .
June 2017	Performance of a Polygenic Risk Score for Generalized Vitiligo, <i>GRAYBILL</i> .
Mar 2017	My learnings from Advanced Gene Mapping Course, <i>StatGen, CU Denver</i> .
Mar 2016	Development of Polygenic Risk Scores for Vitiligo, <i>SIAM</i> .