Saiteja Utpala

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Education

- **Indian Institute of Technology, Kanpur** — Kanpur, India
  Master of Technology in Computer Science; GPA: 9.27 — *Aug. 2018 – Jul 2020*
  Academic Excellence Award
- **Sri Venkateswara University College of Engineering** — Tirupathi, India
  Bachelor of Technology in Mechanical Engineering; GPA: 7.04/10.0 — *Aug 2013 – Apr 2017*
  First Class With Distinction

Experience

- **University of California, Santa Barbara** — Santa Barbara,US
  Staff Research Associate — *Dec 2021 - Present*
- **Geomstats**
  Maintainer — *May 2021 - Present*
- **Pennsylvania State University** — Pennsylvania,US
  Remote Research Intern under Prof.Bharath K Sriperumbudur — *Jan 2021 - Dec 2021*
  Working on Kernel Shrinkage Estimators
- **Mastercard** — Pune, India
  Software Development Engineer — *Aug 2020 - Dec 2021*

publications

- Shrinkage Estimation of Bochner integrals. Saiteja Utpala and Bharat K. Sriperumbudur. In Preparation.
- Biological Shape Analysis with Geometric Statistics and Learning. Saiteja Utpala and Nina Miolane, Snapshot of Modern Mathematics Oberwolfach [link]
- Temperature Scaling for Regression Calibration. Saiteja Utpala and Piyush Rai,ICBINB Workshop@NeurIPS2020 [link]

Achievements

- Co-winner of Computational Geometry & Topology Challenge 2021
- Selected for Summer School in Machine Learning at Skoltech SMILES among 2000 applicants (10% acceptance rate)
- Top 4% contributor for the year 2020 at Mathematics Stack Exchange.
- Achieved 10/10 in Machine Learning and Statistics Coureses at IIT Kanpur
- Received the Academic Excellence Award for exceptional performance in 2018-19 academic session at IIT Kanpur
- Secured All India Rank 308 in GATE computer science among 107,893 candidates
- Certificate of Appreciation from HOD for developing standlone android app for management of Technical fest at SVU

Research Projects

- Stein Estimator for Bochner Integrals in Hilbert Space (Advisor : Bharath K Sriperumbudur)
  - Derived general class of stein estimators for Bochner Integrals in Hilbert Space
  - Obtained sharper rates for degenerate k-variate functionals
  - Paper in preparation, to be submitted to JMLR
- Probabilistic calibration of deep regression models [M.tech Thesis](Advisor : Piyush Rai)
  - proposed new general purpose calibration loss function for probabilistic regression models
  - derived analytical expression for updated point estimate and reduced time from $\mathcal{O}(m)$ to $\mathcal{O}(1)$

Courses At IIT Kanpur

Machine Learning	Bayesian Machine Learning	Randomized Numerical Linear Algebra	Randomized Algorithms
Stochastic Processes	Parallel Computing	Linear Algebra,Probability and Logic	Complexity Theory

Independent Coursework

Convex Optimization	Topology
Probability Theory	Abstract Algebra
Functional Analysis	Multivariable calculus and Manifolds
Complex Analysis	Differential Equations

Teaching Assistant

- Introduction to Computing (ESC101) (Aug'19 - Nov'19)
- Machine Learning (CS771) (Jan'20 - Apr'20)

References

- Piyush Rai
  Associate Professor
  P.K. Kelkar Faculty Fellow
  Dept. of Computer Science and Engineering
  Indian Institute of Technology, Kanpur
  Email: piyush@cse.iitk.ac.in

- Bharath K Sriperumbudur
  Associate Professor
  Department of Statistics
  Pennsylvania State University
  Email: bks18@psu.edu

- Nina Miolane
  Assistant Professor
  Department of Electrical and Computer Engineering
  University of California, Santa Barbara
  Email: ninamiolane@ucsb.edu