Subhasish Basak Curriculum Vitae

Personal Information

Nationality (REL)	Indian (Hinduism)
Date of Birth	December 21st, 1996
Email address	subhasish.basak@centralesupelec.fr
Homepage	https://subhasishbasak.github.io

Education

2021 – present **Université Paris-Saclay** *Gif-sur-yvette, France*
PhD, Mathématique et Informatique

2018 – 2020 **Chennai Mathematical Institute** *Chennai, Tamil Nadu*
M.Sc Data Science, CGPA **9.29**

2015 – 2018 **St. Xavier's College (Autonomous)** *kolkata, West Bengal*
B.Sc Statistics (Hons.), CGPA **8.67**

2013 – 2015 **West Bengal Council of Higher Secondary Education**
XII Standard, Percentage **91.4**

2003 – 2013 **West Bengal Board of Secondary Education**
X Standard, Percentage **92.7**

Early Professional Experience

January 2021 - present **Agence Nationale Sécurité Sanitaire Alimentaire Nationale (ANSES)**
Doctorant sous contrat
Supervisor : Dr. Laurent Guillier

- **Proposition de thèse** : Optimisation Bayésienne pour l'appréciation quantitative des risques en microbiologie
- **Role** : My thesis is a part of the European project ArtiSaneFood in collaboration with CNIEL (**Centre National Interprofessionnel de l'Economie Laitière**). The project is focused on microbial safety and quality of mediterranean artisanal fermented Foods.

Research Experience

October 2019 – present **Laboratoire des signaux et systemés (L2S), CNRS**
Doctorat
Supervisor : Prof. Julien BECT & Prof. Emmanuel VAZQUEZ

- **Topics** : Gaussian Process Regression, Bayesian Optimization
- **Publication** : Numerical issues in maximum likelihood parameter estimation for Gaussian process regression; [arXiv]

May – July 2019 **Laboratoire des signaux et systemés(L2S), CNRS**
Summer intern
Supervisor : Prof. Emmanuel VAZQUEZ

- **Topic** : Reviewing scalability of Python toolboxes implementing Gaussian Process Regression.

January – July 2018 **St. Xavier's College (Autonomous), Kolkata.**
Undergraduate Dissertation
Supervisor : Prof. Debjit SENGUPTA

- **Topic** : Time Series analysis of Gold price using R.

Invited Presentation

10 March 2021   DCE reading group @ **The Alan Turing Institute - London**

- **Topic** : Numerical issues in maximum likelihood parameter estimation for Gaussian process interpolation.

Workshops

11 March 2021   **GdR MASCOT-NUM**

- **Topic** : Workshop on Stochastic Simulators.

16 − 20 December 2019   **Indian Institute of Science Education and Research, IISER − Pune**
Indo-French Centre for Applied Mathematics **(IFCAM)**, *Winter school*

- **Topic** : Graphs and Random Process.

3 − 14 December 2018   **Indian Institute of Science Education and Research, IISER − Kolkata**
Indo-French Centre for Applied Mathematics **(IFCAM)**, *Winter school*

- **Topic** : Stochastic Methods for uncertainty quantification and sensitivity analysis of complex models.

Relevant Coursework

Statistics   **Descriptive Statistice I-III, Probability Theory I-III, Sampling theory, Statistical Inference I-III, Non-parametric Statistical Inference, Multivariate Analysis, Linear Statistical Models, Statistical Quality Control, Econometrics, Time Series Analysis, Demography, Macro & Micro Economics,**

Mathematics   **Real analysis, Numerical Linear algebra, Algebra I-II, Calculus I-II (single and multivariate), Combinatorics.**

Data Science   **Data mining & Machine Learning, Regression & Predictive analysis, Distributed Computing for Big Data, Big Data with HADOOP, Design & Analysis of Algorithms, Advanced Machine Learning (Deep & Reinforcement learning), Information retrieval, Natural Language Processing, Bayesian Data Analysis, Computer vision, Mathematical Finance**

Technical & Programming Skills

OS   **Competent with Linux OS**

Programming   **Python, R**

Softwares & Web   **Git, SQL, LaTeX, HTML**

References

Dr. Emmanuel VAZQUEZ
Associate professor
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