



Yadu Raj Bhageria

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Education and Qualifications

- OCT 2013 - JUL 2017** **Imperial College London**; United Kingdom
MSci in Mathematics (4 Year Degree) | 1st Class Honours
Modules Include: Bayesian Data Analysis; Machine Learning (Python & Matlab); Games, Risks and Decisions; Statistical Modelling; Stochastic Simulation (R); Times Series; Scientific Computation (C); High Performance Computing (Fortran & Python); Computational Linear Algebra (Matlab); Computational PDEs (Matlab); Special & General Relativity; Individual Project - Emergence Phenomena; Group Project - Free Boundary Problems
Dissertation: "Computationally Efficient Forecasting via Gaussian Processes utilizing Large Datasets"
Supervised jointly by Dr Ben Calderhead, Department Of Mathematics, and a leading volatility-based hedge fund, Boussard & Gavaudan. I investigated the use of state-of-the-art Bayesian nonparametric statistical methodology for making time series predictions.
- POSITIONS**
- ▶ Appointed 4th Year Tutor to 1st year undergraduate students (2016-2017)
 - ▶ Elected Committee Chair of a university hall of residence (2015-2016) and Hall Senior before (2014-2015)
- 2007 - 2012** **Millfield School**; United Kingdom
A-Levels: Further Mathematics (A*) Mathematics (A*) Physics (A) Philosophy (B); **AS:** German (B) Economics (B)
GCSEs: A*'s x 9, A's x 2, B's x 1 including Additional Mathematics, English and German
- AWARDS**
- ▶ Arkwright Scholarship (<http://www.arkwright.org.uk>) for excellence in design and engineering
 - ▶ Harvard Book Prize as the student of the year in the graduating class
 - ▶ Distinction in the British Mathematical Olympiad (2011-2012)
- POSITIONS**
- ▶ President of the Academic Society and elected Head of Boarding House

Professional Experience

- JUL - AUG 2016** **Research Assistant - Imperial College London**; London, United Kingdom
Performed under the supervision of Dr Prasun Ray, Department of Applied Mathematics.
- ▶ Implemented a model (in Python) based on behavioural heuristics of pedestrian flows
 - ▶ Quantified impacts of specific perturbations made to ordered states
- JUL 2014** **Co-Founder - SportsUnity**; New Delhi, India
SportsUnity is a social media service and quizzing app for connecting like minded people together while providing all relevant information on a single coherent platform (<http://sportsunity.co>)
- ▶ Defined the user flow of the app and validated various concepts identified during the ideation phase
 - ▶ Conducted market research by taking surveys and piloting experiments on real users and helped identify what features drive user engagement and hence create the most value for the app
 - ▶ Tracked user behaviour using analytics tool (CleverTap) to gain insights and make data driven decisions
 - ▶ Put together a team of specialists to bring the idea alive and keep the product evolving further
- APR 2014** **Intern - Barclays Technology Division**; London, United Kingdom
- ▶ Won the intern group competition on regulation and control within banking technology

Additional Information

- LANGUAGES**
- COMPUTING** **English** (Native); **Hindi** (Native); **German** (Intermediate)
Competent in **C, R, Python, Matlab, Maple** and using **Git**. Basic knowledge of **C++, Fortran**, and **Java**
- ACHIEVEMENTS**
- ▶ Gold Duke of Edinburgh award holder
 - ▶ Climbed Mt Kilimanjaro in August 2013 raising £1,718 for Pratham (NGO promoting education in India)
- INTERESTS**
- ▶ Head of Marketing for the Millfield Sports Relief event raising a final sum of £21,452 for Sports Relief
- Rock Climbing:** Captain of the school team for 3 years and member of the University bouldering team
Chess: Won the national schools finals with Millfield; **Diving:** SCUBA advanced open water qualified; **Piano**

Last updated on 18th July 2017