

Suraj Powar

(Curriculum Vitae)

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Currently: Pursuing Ph.D. in Mathematics at Clemson University, SC, USA.

Academics:

- Currently pursuing Ph.D. in Mathematics at Clemson University, SC, USA.
- Graduated with Post Graduate Diploma in Mathematics from University of Dundee, Scotland, United Kingdom (November 2020).
- Graduated with a Bachelor of Science in Mathematics from Jai Hind College (Mumbai University), Mumbai, India (June 2018).

Research Experience:

- Research Student at IIIT Delhi at Tav Lab working on Deep Learning models for Tuberculosis detection using Generative Adversarial Modelling (Dec 2020- April 2021).
- Completed research project at University of St Andrews, Scotland, United Kingdom under the supervision of Dr. Carolin Kosiol on a project titled, "Polymorphism-aware Phylogenetic Model (POMO) for estimating species trees from Restriction site Associated DNA-Sequencing" (September 2020).
- Summer research student at Tata Institute of Fundamental Research, Mumbai, India, at DCMPMS under the guidance of Mr. Anit Sane. Worked on a project titled, "Arduino programming for stepper motor using C-language" (2017).
- Summer research student at Tata Institute of Fundamental Research, Mumbai, India, at DCMPMS under the supervision of Dr. Shankar Ghosh and Mr. Anit Sane, worked on a project titled, "Efficient Wireless Power Transmission" (2016).

Teaching Experience:

- Lab instructor, I attend labs and grades lab work. In addition, I also conduct office hours. (January 2023 - Present)
Course: *MATH 2070 Business Calculus II*
- Visiting Faculty in the Department of Statistics at K.C. College, HSNC University, Mumbai, India (December 2020 - August 2021).
Course: *Mathematical Foundation 1 (Semester 1)*
Linear Algebra (Semester 2).
- Part time tutor in Mathematics to a student in FYJC (Commerce) from Dhanukar College, Mumbai, India (June 2018 – December 2018).

Computer Skills:

Python | Perl | C | Java | Matlab | Maple | Latex | Scripting: Bash | Linux | Git

Major Experience:

- Database Associate and Python Developer at Conisance Global pvt ltd, Mumbai, India (May 2019 – August 2019).
- Market Researcher and Operations Associate at Group Futurista, Mumbai, India (December 2018 – May 2019).
- Research Analyst at Nexsales Corporation, Mumbai, India. (May 2018 – October 2018).
- Shortlisted candidate for “Mini Mathematics Talent Search Program”, Mumbai, India (April 2016).

Curricular Activities:

- Graduate Teaching Institute certificate by Think Squared Clemson, Clemson University, SC, USA (December 2021).
- Subject representative of post grad mathematics at University of Dundee, UK (2019-2020).
- Elected representative of School of Science and Engineering (SSE) representing mathematics department at University of Dundee, UK (2019-2020).
- Participant at UAS Challenge from University of Dundee’s Team, Haggis Aerospace (Software- Python), UK (June 2020).
- Project presenter at the “Science Exhibition Xplore 2015” on “I can read your mind” based on Mathematical Algorithms.
- Standing third in “Intercollegiate Science Exhibition Phyzex” for project “Tesla Coil” based on electromagnetic induction in December 2015.
- Project Presenter at the Physics seminar on “Nano technology and it’s applications” in February 2015 at Royal college of arts and science.
- Project presenter at the “Science Exhibition Xplore 2014” on “Tower of Hanoi” based on Algebraic properties.
- Participant in a half day workshop on “Scientific Thinking skills” conducted by Interdisciplinary program at Indian Institute of Technology, Bombay, 2014.
- Participated in Annual Science Festival 2014 at Babha Atomic Research Centre, Mumbai. Attended robotics workshop.

Speaking:

- Guest Lecturer (Online via zoom) at Dr B. M. N. College of Home Science speaking on “Kruskal and Warshall Algorithms”. Conducted a short python code execution to demonstrate the working of both the algorithms (June 2021).
- Speaker at ‘A Colab’ on hands on webinar on topic ‘Analysis and Simulation of the Prey Predator Model’. Also demonstrated simulation in real time on Python (August 2020).

Online Certification:

- Biology Meets Programming: Bioinformatics for Beginners – University of California San Diego offered by Coursera.

<https://coursera.org/share/6ec128016953cfb21762d21c05fdeef9>

Other Activities:

- https://medium.com/@Suraj_Powar – Medium blog.
- <https://github.com/surajpowar> - Github Profile.
- Volunteer and Organizer at Intercollegiate Science Exhibition Xplore in 2014, 2015, 2016 held at Jai Hind College, Mumbai for Physics and Mathematics.
- Volunteer and Organizer at Phyzax in Jai Hind College in December 2015.
- Organizer at The Maths Fest, 2017 held at Jai Hind College.
- Attended seminar programs at R.A Podar, Royal College-Mira Road, Sophias College in Mumbai.