SHEETAL

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EDUCATION

University of Iowa, Iowa, USA

Jan 2024 - Present

PhD in Applied Mathematics and Computational Sciences, GPA: 4.33/4.0

Supervisors: Prof. Ann Campbell and Prof. Xi Luo

Purdue University, West Lafayette, Indiana, USA

Aug 2023 - Dec 2023

PhD in Statistics, GPA: 4.0/4.0

(Transferred to the University of Iowa in Jan 2024)

Indian Institute of Technology (IIT) Delhi, New Delhi, India

Jul 2014 - Jun 2016

MSc in Mathematics; CGPA: 9.25/10

<u>Master's Thesis:</u> Studied various methods and algorithms on the Irreducibility of Polynomials

<u>Supervisor:</u> Dr Ritumoni Sarma, Department of Maths, IIT Delhi

St. Stephen's College, University of Delhi, New Delhi, Delhi

Jul 2011 - Jun 2014

B.Sc. (Honors) in Mathematics; First Class Honors: 95%

- Prof. P.L. Bhatnagar Memorial Prize for being the Best student of Mathematics
- Dr. P.B. Bhattacharya Memorial Prize, for scoring the highest marks in UG Studies
- Best Student Award Batch 2014

TEACHING ASSISTANT

•	MATH1560: Engg Math II (University of Iowa)	Aug 2024 - Present
•	STAT 301: Elementary Statistical Methods (Purdue University)	Aug 2023 - Dec 2023
•	STAT 350: Introduction to Statistics (Purdue University)	Aug 2023 - Dec 2023

WORK EXPERIENCE

Tenured Assistant Professor in Department of Mathematics, University of Delhi, India

Jul 2018 - Present

• Taught core and elective undergraduate courses along with practical work using mathematical software, mainly focused in the areas of Real Analysis, Calculus, Multivariate Calculus, and Complex Analysis. (Class Size taught: Approx. 50 students per batch)

Lecturer in Department of Sciences & Humanities, Pusa Institute of Technology, Delhi, India Jul 2017 - May 2018

• Taught two core undergraduate courses in the area of Applied Mathematics

RESEARCH WORK & INTERNSHIPS

Summer Programme in Mathematics (SPM)

May 2015 – Jul 2015

Selected for SPM organized by the Harish-Chandra Research Institute (HRI) Allahabad.

• IASc- INSA- NASI Summer Research Fellowship Program May 2014 – Jul 2014
Project on study of Finite simple groups under the guidance of Prof I.B.S. Passi, IISER Mohali.

• Mathematical Training and Talent Search Program (MTTS)

Selected for the O-level camp of MTTS in 2013, conducted by NBHM (National Board for Higher Mathematics) to teach mathematics interactively and to promote independent thinking in the subject.

AWARDS & ACHIEVEMENTS

- Awarded **Junior Research Fellowship** by the Council of Scientific & Industrial Research (CSIR) in 2017 for undertaking research work in the field of Mathematics for five years (2017-2022).
- Qualified **National Eligibility Test** with All India Rank 108, conducted jointly by CSIR and University Grants Commission (UGC) to determine the eligibility for teaching in Indian universities.
- Qualified Graduate Aptitude Test in Engineering (GATE) 2018.
- Recipient of the Singapore Stephanian Scholarship for three consecutive years (2011-2014), awarded by the alumni of St. Stephen's College to only one student per year, for academic excellence and good writing skills.

Award value: SGD 800 per year

- Recipient of Innovation in Science Pursuit for Inspired Research (INSPIRE) Scholarship by the Department
 of Science and Technology, Govt. of India for five consecutive years (2011-2016) for being among the top
 1% of class XII students at the national level. Award value: Rs. 80,000 per year for 5 years
- Winner of **Mathematics Quiz competition** organized by Mathematics Society of St. Stephen's College in its annual festival in 2013-14.
- Recipient of the Best Student Award for the academic year 2010 2011 by Hindu Vidyapeeth School for academic excellence and holding the highest leadership position (Head Girl) in the school.

TEACHER TRAINING PROGRAMS

- National Faculty Development Program on Basics of Research and Issues in Plagiarism (An Interdisciplinary Approach) organized by Guru Angad Dev Teaching Learning Centre, Ministry of Education, Govt. of India in August 2021.
- National Faculty Development Program on **Biostatistical & Mathematical Skills with Excel & R** (grade A+) organized by Guru Angad Dev Teaching Learning Centre, Ministry of Education, Govt. of India in August 2021
- Participated in a joint online teacher's Enrichment workshop on "Differential Equations and its Applications" organized by IIT Bombay and Tata Institute of Fundamental Research under the joint initiative of Indian National Science Academy and National Centre of Mathematics in March 2021
- Refresher Course in Mathematics organized by Teaching Learning Centre, University of Delhi under the aegis of Ministry of Education, Govt. of India in March 2021
- National Faculty Development Program on Development of e-content & MOOCs in Four Quadrants (grade A+) organized by Guru Angad Dev Teaching Learning Centre, Ministry of Education, Govt. of India in January 2021
- National Faculty Induction Program (grade A+) organized by Guru Angad Dev Teaching Learning Centre, Ministry of Education, Govt. of India in December 2020
- Workshop on Data Manipulation and Visualisation through statistical software R organized by Zakir Husain Delhi College, University of Delhi, under the aegis of DBT-Star College Scheme, Govt. of India in July 2020
- National Faculty Development Program on Multimedia enriched e-content (grade A+) organized by Guru Angad Dev Teaching Learning Centre, Ministry of Education, Govt. of India in May 2020

TECHNICAL SKILLS

- Proficient in mathematical software: Mathematica, MATLAB, Maxima
- Programming in SQL, C, C++, and R

VOLUNTEERING ACTIVITIES

- Mentor and advisor to the budding teachers of various states where I guide and help young aspirants with their preparation for competitive exams and interviews for teaching positions
- Member of SPSTI (Society for Promotion of Science and Technology in India), an NGO working for the cause of higher education and popularisation of STEM disciplines in India
- Teaching experience of one month in Summer school in Science and Mathematics for female students organized by SPSTI in Kurukshetra in June 2015
- Teaching experience of three years in evening classes organized by the Social Service League of St. Stephen's College under an initiative to provide education to poor and underprivileged students