

# Curriculum Vitae

*Sashadhar Dutta*

## EDUCATION

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**2024 – Present**

*PhD in Mathematics*

Higher School of Economics, Moscow, Russia  
Doctoral research in pure mathematics

**2021 – 2023**

*Master of Science (M.Sc.) in Mathematics*

Ramakrishna Mission Vivekananda Centenary College, Rahara, India

**2018 – 2021**

*Bachelor of Science (B.Sc.) in Mathematics*

Bhairab Ganguly College, Kolkata, India  
Ranked 3rd in the Department

## TEACHING EXPERIENCE

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**2024**

*Teaching Assistant*

Ahmedabad University, India  
Foundation Program (Summer and Winter Semesters)

**2024**

*Teaching Assistant*

Ashoka University, India  
Lodha Genius Programme

**2022 – 2023**

*Mentor*

Online Foundation Course in Mathematics (MTTS)  
Instruction in Sets and Mathematical Logic  
Mathematics Olympiad Training  
Prepared students for Mathematical Olympiads and entrance examinations of ISI, CMI, and related institutions

## RESEARCH PROJECTS

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**2022**

*Quantum Cryptography*

Supervisor: Dr. Prasanta K. Panigrahi

**2022**

*Differential Equations and Their Solutions*

National Institute of Technology Tiruchirappalli, India  
Supervisor: Dr. Jitraj Saha

**2022**

*Fuzzy Logic and Set Theory*

National Institute of Technology Tiruchirappalli, India  
Supervisor: Dr. V. Lakshmana Gomathi Nayagam

## ACADEMIC SCHOOLS AND WORKSHOPS

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**2024**

*School on Arithmetic Geometry*

University of Duisburg-Essen, Germany

**2024**

*Interactive Multiobjective Optimization*

University of Jyväskylä, Finland

**2023**

*Teacher's Enrichment Workshops*

BITS Pilani, Hyderabad Campus, India  
Linear Algebra, Differential Equations, and Applications

**2023**

*Teacher's Enrichment Workshops*

St. Xavier's College, India  
Groups and Geometry

**2022**

*Summer Programme in Mathematics*

Harish-Chandra Research Institute, India

**2021**

*Mathematics Training and Talent Search Programme (MTTS)*

## TALKS AND PRESENTATIONS

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**2020**

*Golden Ratio*

St. Xavier's College, India

**2021**

*Fibonacci Numbers*

St. Xavier's College, India

**2022**

*Analysis of the Golden Ball Show*

Ramakrishna Mission Residential College, India

## ONLINE COURSES AND MINI-COURSES

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- Analytic Number Theory II — Greg Martin
- Moments of  $L$ -Functions — Alia Hamieh
- Hodge Theory, Deligne Cohomology, and Algebraic Cycles — Xi Chen
- Geometry and Dynamics in Moduli Spaces — Anton Zorich

## ACHIEVEMENTS AND AWARDS

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- Selected for CMI-HIMR Summer School on Diophantine Geometry
- Qualified University of Hyderabad M.Sc. Entrance Examination (Rank 63)
- Qualified Central University Common Entrance Examination (2021)
- Admitted to M.Sc. programs at University of Göttingen, University of Liverpool, University of St Andrews, and PSL-Dauphine

## PROFESSIONAL MEMBERSHIPS

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- International Linear Algebra Society
- Institute of Mathematical Statistics
- Swiss Mathematical Society

## OTHER ACADEMIC AND CREATIVE ACTIVITIES

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- Creator of the YouTube educational channel *Fact Sci Guy*
- Bengali writer and published author (Kolkata Book Fair, 2023,2024,2026).
- Painter and amateur football player
- Daily practitioner of yoga