

SUBHAJIT

GHOSH

CONTACT INFO

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Date of Birth	13th January, 1998
LinkedIn	https://www.linkedin.com/in/subhajit-ghosh-59b838265/
Website	https://ghosubhajit.github.io

EDUCATION

SERB-CRG Post Doctoral Fellow <i>Indian Statistical Institute, Bangalore, India</i>	2024-
<ul style="list-style-type: none">Project: Poissonian Shot-noise Fields and Diffusions	
Ph.D. in Mathematics <i>Tata Institute of Fundamental Research Bangalore, India</i>	2021-2024
<ul style="list-style-type: none">Ph.D. Thesis: On the number of connected components of polynomial lemniscates: Deterministic and Random	
M.Phil. Thesis <i>Tata Institute of Fundamental Research Bangalore, India</i>	2020-2021
<ul style="list-style-type: none">M. Phil. Thesis: "Some Topics in Potential Theory and Random Polynomial"	
M.Sc. in Mathematics <i>Tata Institute of Fundamental Research Bangalore, India</i>	2018-2020
<ul style="list-style-type: none">Graduated with 82%	
B.Sc. in Mathematics <i>Ramakrishna Mission Vidyamandira Belur, West Bengal</i>	2015-2018
<ul style="list-style-type: none">CGPA : 8.7	

Higher Secondary Certificate2013-2015
Bidhannagar Government High School | Salt Lake, West Bengal

- Graduated with 83%

Secondary School Certificate2003-2013
Bidhannagar Government High School | Salt Lake, West Bengal

- Graduated with 89%

PUBLICATIONS

Published	<p>Subhajit Ghosh (2024b). "On the number of components of random polynomial lemniscates". In: <i>Electronic Journal of Probability</i> 29.none, pp. 1-24. DOI: 10.1214/24-EJP1147. URL: https://doi.org/10.1214/24-EJP1147.</p> <p>Subhajit Ghosh and Koushik Ramachandran (2024). "Number of components of polynomial lemniscates: A problem of Erdős, Herzog, and Piranian". In: <i>Journal of Mathematical Analysis and Applications</i> 540.1. DOI: https://doi.org/10.1016/j.jmaa.2024.128571. URL: https://www.sciencedirect.com/science/article/pii/S0022247X24004931.</p>
In Progress	<p>Subhajit Ghosh (2024a). "Metric Properties of random polynomial lemniscates". In: <i>In preparation</i>.</p>

EXPERIENCE

TEACHING ASSISTANT (UG)	01-28 June 2022
Summer Workout in Mathematics (SWIM) TIFR-CAM	
TEACHING ASSISTANT (G)	2020-2024
Graduate Courses TIFR-CAM	
<ul style="list-style-type: none">• Linear Algebra, 2020• Real Analysis, 2021• Probability Theory, 2022• Complex Analysis, 2023• Functional Analysis, 2024	
TEACHING ASSISTANT	2024-
Graduate Course ISI Bangalore	
<ul style="list-style-type: none">• Topics in Discrete Probability 2025	

ACHIEVEMENTS

Scholarships	<ul style="list-style-type: none">• JBNSTS Scholarship 2015• DST Inspire Scholarship 2015-2018• TIFR-CAM Int. Ph.D. Scholarship 2018-2024• UGC, CSIR Ph.D. fellowship• SERB-CRG Post Doctoral fellowship
Awards	<ul style="list-style-type: none">• NET Mathematics December'19 AIR-31• GATE Mathematics 2020 AIR-173• JAM Mathematics 2018 AIR-133• Qualified NBHM cut-off for HRI

TALKS

Expected length of random lemniscae <i>ISI Bangalore, India</i>	30/01/2025
<ul style="list-style-type: none">At Post Doc-Research Scholar Symposium Introduction to polynomial lemniscates <i>ISI Bangalore, India</i>	14/01/2025
<ul style="list-style-type: none">At ISI Math Club On the Number of components of random polynomial lemniscates <i>Christ University Bangalore, India</i>	28/12/2024
<ul style="list-style-type: none">39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024) Introduction to polynomial lemniscates <i>Bangalore, India</i>	29/10/2024
<ul style="list-style-type: none">At TIFR CAM Alumni Meeting 2024 On the Number of components of random polynomial lemniscates <i>Montreal, Canada</i>	12/07/2024
<ul style="list-style-type: none">At CRM-PIMS probability summer school	
Number of connected components of polynomial lemniscates: A problem of Erdős, Herzog, and Piranian <i>Granada, Spain</i>	27/06/2024
<ul style="list-style-type: none">The IMAG Conference on Orthogonal Polynomials(OPSFA17) NUMBER OF CONNECTED COMPONENTS OF RANDOM POLYNOMIAL LEMNISCATES <i>TIFR-CAM</i>	08/04/2024
<ul style="list-style-type: none">At Bangalore probability seminer NUMBER OF COMPONENTS OF POLYNOMIAL LEMNISCATES: A PROBLEM OF ERDÖS, HERZOG, AND PIRANIAN <i>IISER-PUNE</i>	15/12/2023
<ul style="list-style-type: none">At Interactions in SCV conference	

SKILLS

● ● ●	LaTeX, Basic Microsoft Excel, Word, Office
● ● ○	Python, C, Mathlab
● ○ ○	Linux, Mac, Windows OS
Languages	<ul style="list-style-type: none">Bengali (native)English (Full professional proficiency)Hindi (Basic)

REFERENCES

Prof. Koushik Ramachandran	Reader Room No.106, Department of Mathematics, TIFR-CAM,Bangalore Office Phone: +91 80 6695-3727 Email: koushik@tifrbng.res.in
Prof.Manjunath Krishnapur	Associate professor Office N25, Dept. of Mathematics, Indian Institute of Science Email: manju@iisc.ac.in Office Phone:+ 91-80-2293 3207
Prof. Sreekar Vadlamani	Associate Professor Room No.212, Department of Mathematics, TIFR-CAM,Bangalore Email: sreekar@tifrbng.res.in Office Phone: +91 80 6695-3741
Prof. Sivaguru R	Reader Department of Mathematics, TIFR-CAM,Bangalore Email: sivaguru@tifrbng.res.in Office Phone: +91 80 6695-3748
Prof. Atul Shekhar	Reader Room No.117, Department of Mathematics, TIFR-CAM,Bangalore Email: atul@tifrbng.res.in Office Phone: +91 80 6695-3722