Jiten Ahuja

Contact Information

Email: jahuja1@lsu.edu

EDUCATION

Ph.D. in Mathematics

2019 -

Louisiana State University, A&M

CGPA: 3.802

Master of Science in Mathematics

2017 - 2019

Indian Institute of Technology, Madras

CGPA: 7.83/10.00

Master of Science (Hons.) in Mathematics

2013 - 2017

Birla Institute of Technology and Science Pilani

CGPA: 7.92/10.00 | Math Major CGPA: 8.15/10.00

Thesis: Elliptic Functions and Modular Forms under supervision of Dr. Pradeep B.

PROJECTS

Category Theory

Jan - May, 2020

Project under the supervision of Prof. Milen Yakimov

• Saunders M., Categories for the Working Mathematician; Chapters 1 - 3

Introduction to p-adic analysis

Aug - Nov, 2018

Project under the supervision of Dr.Dipramit Majumdar

- Katok S., p-adic analysis compared with real, Chapters 1 4
- Gouvea F., p-adic Numbers: An introduction; Chapters 1 4

Algebraic and Fractional Graph Theory

Jan - Jun, 2018

Project under the supervision of Dr. Narayanan N

- Godsil and Royle, Algebraic Graph theory; Chapters 1, 2
- Ullman and Scheinerman, Fractional Graph Theory: A Rational Approach to the Theory of Graphs; Chapters 1, 3
- Zoltan Furedi, On the Number of Edges of Quadrilateral-Free Graphs, Journal of Combinatorial Theory, Series B Volume 68, Issue 1, September 1996

Analysis Aug - Dec, 2016

Project under the supervision of Dr. Pradeep B

• Folland G B, Real analysis: Modern techniques and its applications; Chapters 1,4,5

A study on Decompositions of Graphs

Jan - May, 2016

Project under the supervision of Dr. Tarkeshwar Singh

• Bosak J., Decompositions of Graphs; Chapters 1-6

Prime Number Theorem

FEST 16

Aug - Nov, 2015

Mar, 2016

Project under the supervision of Dr.Himadri Mukherjee

• Apostol T., Introduction to Analytic Number Theory; Chapters 1-4,13,14

TEACHING EXPERIENCE

• Staff at Math Circle Competition Team	March, 2021 -
• Math Circle, Research Mentor 28	8th Jun - 16th Jul, 2021
• LSU Virtual Math Ready Program, TA	7th - 25th Jun, 2021
• MATH 1552 (Calc-2) Grader, LSU	Jan - May, 2021
• MATH 1021 College Algebra Instructor, LSU	Aug - Dec, 2020
• MATH 1552 (Calc-2) & MATH 2057 (Calc-3) Grader, LS	U Jun - May, 2020
• MATH 4200 (Abstract Algebra) Grader, LSU	Aug - Dec, 2019
• MATH 4253 (Finite-dimensional Vector Spaces), Grader,	LSU Aug - Dec, 2019
• Elementary Real Analysis, Grader, BITS Pilani	Aug - Dec, 2016
• Graphs and Networks, Grader, BITS Pilani	Jan - May, 2016

SEMINARS

• Polynomial Knot Invariants "Graduate Topology Seminar", LSU	Feb, 2021
• Category Theory "Communicating Mathematics", LSU	May, 2020
• Topological Proof of Infinitely Many Prime Numbers "Gradu	ate Topology
Seminar", LSU	Oct, 2019
• Introduction to p-adic numbers "Weekly Student Seminar", IIT-N	M Nov, 2018
• Riesz Representation Theorem, IIT-M	Nov, 2018
• Transcendence of e, https://cfs.niser.ac.in/tpm-2017-2/	Jun, 2017
• Probability of 2 natural numbers chosen at random being co-pr	ime, MATH-

POSITIONS OF RESPONSIBILITY

- Student President of Department of Mathematics for the academic year 2015-16
- Student co-ordinator for the workshop on Number Theory and Cryptography 15
- Led teams to conduct and successfully complete the annual mathematics festival MathFest - 16, Numbers - 16 and Department fest - 16
- Editor of the annual mathematics magazine Convergence for the issue 2015-16 and authored two articles that were featured in the magazine
- Involved with making of a number of artworks exhibited at BITS-Pilani, K K Birla Goa Campus during 2013-15 as a member of Department of Arts and Deco