

MEGHANA BHAT

Indian Institute of Technology Dharwad

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EDUCATION

Ph.D. Mathematics (July 2021 – Present)

Indian Institute of Technology Dharwad

CGPA: 9.56/10

Research Area - **Commutative Algebra**

Supervisor - **Prof. Shreedevi Masuti**

Master of Science (2019-21)

Pondicherry University, Pondicherry

CGPA: 9.49/10

Bachelor of Science (2016-19)

Mahatma Gandhi Memorial College, Udipi

Percentage: 92.46%

COURSEWORK

- Introduction to Graduate Algebra
- Differential Topology
- Advanced Algebra
- Algebraic Topology
- Commutative Algebra (Reading course)

TEACHING ASSISTANT/MENTORING

- Complex Analysis, Differential Equations-II (Autumn 2023)
- Calculus-I,II, Linear Algebra (Spring-2023)
- Linear Algebra, Differential Equations-I (Spring-2022)
- Mentor for the Online Foundation Course in Mathematics (OFCM-2020) held online by MTTS. (4th-20th Oct' 2020)

TECHNICAL SKILLS

LaTeX

Macaulay2

SINGULAR

SageMath

EXTRA CURRICULAR ACTIVITIES

- Participated in the INTER-IIT Sports Meet-2022. I was leading the Women's Basketball team of IIT Dharwad as the vice-captain. (Dec'-2022)
- Participated and won prizes in quiz and seminar competitions of Mangalore university level fests *Scientica*, *Colloquium*, etc. held at various colleges. (2018-19)

SCHOLARSHIPS/ACHIEVEMENTS

- Prime Minister's Research Fellowship - PMRF. (2022)
- Qualified GATE-2021, CSIR-NET LS June-2021. (2021)
- Dr. T.M.A Pai Gold Medal as the best student in the final degree from MGM College, Udupi. (2019)
- INSPIRE Scholarship (SHE). (2016-21)
- National Means-Cum-Merit Scholarship Scheme Examination (NMMS). (2012-16)

WORKSHOPS/CONFERENCES

- Attended "School and workshop on Commutative Algebra and Algebraic Geometry in Prime Characteristics and Workshop on Commutative Algebra and Algebraic Geometry in Prime Characteristics" at the ICTP, Italy. (02nd May - 12th May 2023)
- Attended "Conference on Commutative Algebra and Algebraic Geometry (CoCAAG-2023)" held at IIT Hyderabad. (8th Feb' - 11th Feb' 2023)
- Attended "IWM-2022" conference held at the Indian Institute of Science Education and Research, Pune. (27th Dec' - 29th Dec' 2022)
- Attended "Sagedays 114" held at the Institute of Mathematical Sciences, Chennai. (25th July - 27th July 2022)
- Attended NCM Workshop on "Maximal Cohen-Macaulay Modules" held at CMI, Chennai. (11th July - 17th July 2022)
- Attended "Graduate Course on Tight Closure of Ideals and its Applications" held online by the International Centre for Theoretical Physics (ICTP), Italy. (16th May - 25th July 2022)
- Attended NCM Workshop on "Intersection Theory" held at IIT Bombay. (2nd May - 13th May 2022)
- Participated in "Mathematics Training Programme and Talent Search (MTTS)" Level O,1, 2. (2018,2019,2020)

RESEARCH PROJECTS

Representation theory of finite groups (2020)

Supervisor: Prof. K. N. Raghavan, IMSc Chennai

- Further reading on representation theory of finite groups and character theory. Explored supercharacter theory.

Representation theory of finite groups (December 2019)

Supervisor: Dr. Ananthnarayan Hariharan, IIT Bombay

- Read the book Representation theory of finite groups by Benjamin Steinberg and completely listed the complex representations up to isomorphism of abelian groups, dihedral groups and all groups up to order 15.

Referee

Prof. Shreedevi Masuti, Email: shreedevi@iitdh.ac.in