

Milind Hegde

+91-99-8670-8610

*

milind.hegde@gmail.com

Education

2012 – Present

Bachelor of Science, Indian Institute of Science, Bangalore

Major in Mathematics, expected to graduate in May 2016. In the top 2 of the mathematics majors group of 21.

Latest Term GPA: 7.8/8

Cumulative GPA: 7.6/8

Has taken and excelled in advanced mathematics courses including measure theory, probability theory, stochastic processes, functional analysis, algebraic topology, real & complex analysis, commutative algebra, Galois theory, representation theory.

Exam Scores

| | | | | |
|------------------------------|---------------------------------------|---|---|------------------|
| GRE (General) | Verbal 170/170 (99 percentile) | Quantitative 170/170 (98 percentile) | Analytic Writing 5/6 (93 percentile) | |
| GRE Subject (Mathematics) | Scaled Score: 890/900 (95 percentile) | | | |
| TOEFL | Reading 30/30 | Listening 30/30 | Speaking 30/30 | Writing 28/30 |

Research Experience

August 2015 –
Present

Final Year Research Project, IISc

- Studying harmonic analysis, singular operators, and the Fock space.
- Working on an open problem regarding the boundedness of a certain class of integral operators on the Fock space (see Integr. Equ. Oper. Theory 81 (2015), pg. 451–454.)
- Under the guidance of Prof. S. Thangavelu.

June 8 – July 9,
2015

Participant in Visiting Students' Research Programme, TIFR, Mumbai

- Studied algebraic number theory under the guidance of Prof. Sandeep Varma.
- Gave a twenty minute talk titled *The Sign of the Gauss Sum*.

May 5 – June 19,
2014

Research Project, IIT-Bombay

- Studied graph theory, extremal combinatorics, and the Complete Intersection Theorem.
- Worked on a conjecture in extremal graph theory and made some headway.
- Under the guidance of Prof. Niranjana Balachandran.

Summer 2013

Summer Project at Physics Department, IISc

- Studied fluid mechanics and the Plateau-Rayleigh Instability under the guidance of Prof. Arnab Rai Choudhuri.

Other Experience

2015

App Coordinator, Pravega, IISc's Science and Technology Festival

- Was responsible for and coordinated the development of the Pravega map with an external developer.

- 2014 **Editorial Coordinator & Designer, *Quarks Magazine*, IISc UG**
- Managed the editorial team and coordinated with other teams to bring out the magazine successfully and on time.
 - Designed 3 articles in full, and was heavily involved with overall typography and type-setting of the magazine.
- 2013 **Editor, *Quarks Magazine*, IISc UG**
- Selected for skill in writing, composition, editing. Further contributed to the magazine by ensuring that typographic rules were followed throughout.
- 2013 **Core Committee Member, *Pravega***
Tasked with major aspects of the fest, including website, design, events, and its founding.
- Was personally responsible for Pravega's General Quiz and complete website.
- 2013 **Head of Web Team, *Pravega***
Responsible for every aspect of the website (pravega.org/pravega2014), such as designing, coding, and administration. In particular,
- Implemented a login system with industry-standard cryptographic practices.
 - Learnt PHP and MySQL for the purpose.
- 2013 **Web Designer of IISc UG Website**
- Designed and coded the IISc UG website (iisc.ernet.in/ug).
- 2013 **Typesetter, *Scipher*, IISc UG Mock KVPY Exam**
- Typeset the entire Scipher question paper for both the SA and SX question papers. Learnt to use LaTeX to write equations, chemical structures, physics diagrams.

Skills & Strengths

| | |
|--|---|
| Programming | Has experience programming in several languages, including C, C++, R, Matlab, JavaScript, PHP. |
| Software | Comfortable with Microsoft Word, Excel, PowerPoint, Adobe InDesign, Adobe Photoshop, Mathematica, Matlab, R, LaTeX, among others. |
| Typesetting, Design, Typography | Sensitive to font choice, spacing, placement and arrangement of text, and overall design choices of documents. |

Honours & Achievements

- 2013, 2014 **ACM ICPC**
Qualified to the national level of the ACM ICPC, a prestigious international programming competition, of which approximately ten teams qualify to the international finals.
- 2012 **KVPY Fellow**
Awarded KVPY Fellowship through the SX Stream.
- 2012 **CBSE Group Mathematics Olympiad (GMO) Awardee**
Qualified the GMO to write the INMO (Indian National Mathematics Olympiad). Among 6 selected from across the country's CBSE schools.
- 2012 **Best Outgoing Student**
Honoured with the title of best outgoing student out of the 100-strong 2012 batch at Sri Kumaran Children's Home.