

Milind Hegde

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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.