

# Milind Hegde

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milind.hegde@gmail.com



## Education

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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.

## Research Experience

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June 8 – July 9,  
2015

**Participant in Visiting Students' Research Programme at 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 at 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

**Research Project at Physics Department, IISc**

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

## Other Experience

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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, Quarks Magazine, IISc UG**

- Managed the editorial team and coordinated with other teams to bring out the magazine successfully and on time.

2014

**Designer, Quarks Magazine, IISc UG**

- 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 involved in overall management and decision making.
- 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](http://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](http://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

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<b>Mathematical &amp; Analytic Thinking</b>	Is a top mathematics student, and is very adept at abstract thinking, focused problem solving, and analysis of issues and data.
<b>Programming</b>	Has experience programming in several languages, including C, C++, R, Matlab, JavaScript, PHP.
<b>Software</b>	Comfortable with Microsoft Word, Excel, PowerPoint, Adobe InDesign, Adobe Photoshop, Mathematica, Matlab, R, LaTeX, among others.
<b>Statistics</b>	Has taken courses in probability and statistics, along with further self-study of statistics.
<b>Typesetting, Design, Typography</b>	Sensitive to font choice, spacing, placement and arrangement of text, and overall design choices of documents.
<b>Miscellaneous</b>	Is hardworking and intelligent, and is capable of and familiar with picking up new skills quickly.

## Honours & Achievements

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- 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.