Anurag Sahay

Curriculum Vitae

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Education

- 2011–2016 **Master of Science (Dual Degree)**, *Mathematics and Scientific Computing*, Indian Institute of Technology, Kanpur, *CPI* 7.9.
- 2011–2016 **Bachelor of Science (Dual Degree)**, *Mathematics and Scientific Computing*, Indian Institute of Technology, Kanpur, *CPI* 8.6.

 Graduated with Distinction; Minors in: (1) Theory of Computing; and (2) Literature

Research Interests

Additive Combinatorics, Analytic Number Theory, Combinatorial Number Theory, Sieve Theory, Applications to Theoretical Computer Science.

Project Work

- Jan-Apr '16 **The Hidden Subgroup Problem**, *IITK*.

 Supervised by: Dr. Rajat Mittal, Dept. of Computer Science and Engineering
- Jan-Apr '16 **MS Thesis, Part II: Prime Numbers and Arithmetic Progressions**, *IITK*. Supervised by: Dr. Somnath Jha, Dept. of Mathematics and Statistics
- Jul-Nov '15 **MS Thesis, Part I: The Vinogradov Theorem**, *IITK*.

 Supervised by: Dr. Somnath Jha, Dept. of Mathematics and Statistics
- Jan-Apr '15 Additive Combinatorics and Szémeredi's Regularity Lemma, *IITK*. Supervised by: Dr. Rajat Mittal, Dept. of Computer Science and Engineering
- Jul-Nov '14 Additive Combinatorics and Incidence Geometry: Kakeya's Problem, IITK.
 Supervised by: Dr. Nitin Saxena, Dept. of Computer Science and Engineering
- Jan-Apr '14 **Arithmetic Progressions in Sets of Integers**, *IITK*.

 Supervised by: Prof. Shobha Madan, Dept. of Mathematics and Statistics
- Jul-Nov '13 **Fourier Analysis on Finite Abelian Groups**, *IITK*.

 Supervised by: Prof. Shobha Madan, Dept. of Mathematics and Statistics
- May–Jul '13 **The Bombieri-Vinogradov Theorem**, *IMSc, Chennai*.

 Supervised by: Prof. R. Balasubramanian, Director and Dr. Sanoli Gun, Reader
- Jun-Jul '12 **Partitions and Rademacher's Exact Formula**, *IIT Delhi*. Supervised by: Dr. Amitabha Tripathi, Dept. of Mathematics

Awards and Achievements

- 2016 **Ratan Swarup Memorial Prize**, *Indian Institute of Technology, Kanpur*.

 Best all round undergraduate student graduating at the Convocation of IIT Kanpur.
- 2016 IIT Kanpur Excellence Award for Leadership in Students' Affairs.
- 2014 **Prof. J.N. Kanpur Prize**, *Department of Mathematics and Statistics, IITK*. Best undergraduate/Masters student in the Department of Mathematics and Statistics at the end of the third year (for undergraduates) and first year (for Masters students).
- 2013–14 **Academic Excellence Award**, *Senate Scholarships and Prizes Committee, IITK*. Top 10% among students of the Institute in an Academic Year.
 - 2013 **Summer Research Fellowship**, *Indian Science Academies*.

 Awarded by IASc, Bangalore; INSA, Delhi; and NASI, Allahabad to do a research project under the guidance of Prof. R. Balasubramanian and Dr. Sanoli Gun at the Institute of Mathematical Sciences, Chennai.
 - 2011 **Kishore Vaigyanik Protsahan Yojana (KVPY) SX Fellowship**, *IISc Bangalore*. Awarded to 78 (out of about 100,000 applicants) undergraduate students excelling in the fields of science to encourage them to take up research careers as scientists.
 - 2008 **NTSE Scholarship**, *National Council of Educational Research and Training*. Awarded to the top 1000 high school students in India on the basis of a National Talent Search Examination (NTSE).

Research Schools and Workshops

- Summer'14 Summer School in Analytic Number Theory, IHÉS, France
- Summer'13 Science Academies' Lecture Workshop, IMSc, Chennai
- Winter'11 Vijyoshi Camp, IISc Bangalore
- Summer'11 Canada/USA Mathcamp

Work Experience

- Sep '16- **Boston Consulting Group**, *Gurgaon, Haryana, India*. Associate
- May-Jul '15 **Deutsche Bank (DB Centre)**, *Mumbai, Maharashtra, India.* Summer Analyst

Positions of Responsibility

- 2014-2015 **Students' Senate**, *Indian Institute of Technology*, Kanpur. Chairperson, Students' Senate
- 2012-2015 **Senate Undergraduate Committee**, *Indian Institute of Technology*, Kanpur. Students' Senate Nominee
- 2012-2014 **Counselling Service**, *Indian Institute of Technology*, Kanpur. (Senior) Academic Mentor
- 2010-2011 **Mathematical Society**, *Delhi Public School*, R.K. Puram. Vice President

Skills Languages:

Programming:

Tools:

English (Native) | Hindi (Native) | French (Elementary) C (Native) | C++ | Python | Haskell (Elementary) Django | HTML | LATEX | MS-Word

Hobbies and Extra-Curricular Activities

I greatly enjoy reading, especially comic books, fantasy novels and science fiction. I also indulge in programming, word games, crosswords, card and board games, and recreational mathematics, and have a layman's interest in history and mythology.