Srikar Varadaraj
Resume

Contact Information

Columbia University, New York, NY 10027 sv2423@columbia.edu

Academic Interests

Algorithms, Machine Learning, Combinatorics, Game Theory, Complexity

Education

Columbia University, New York, NY

Bachelor of Arts in Mathematics and Computer Science (2013-2017), C*GPA: 3.7*

Masters in Theoretical Computer Science (2017-2018)

Relevant coursework

• *Algebraic Curves, Advanced Complexity, Advanced Algorithms, Advanced Machine Learning, Game Theory, Graph Theory, Algebraic Number Theory, Advanced Programming*

Experience

• Research Internship Program at Columbia University **Summer, 2017**
Modeling and Simulation of User Generated Content Dynamics

• Software Engineer (Intern) at Google, New York, NY **Summer, 2016**
Used Natural Language Processing tools to improve query understanding and search result quality for the Zagat app, which allows users to find restaurants and the best places to eat.

• REU (Research Experience for Undergraduates) at Columbia University **Summer, 2015**
Investigated Hurwitz Numbers, an analogue of Bernoulli Numbers. Found surprising patterns, new properties and connections to the zeros of p-adic L functions.

• REU (Research Experience for Undergraduates) at Columbia University **Summer, 2014**
A project in Algebraic Topology. Generalized results of Clay and Watson for large classes of L-space twisted torus knots.

Publications and Presentations

• **Non-left-orderable surgeries on twisted torus knots**
Katherine Christianson, Justin Goluboff, Linus Hamann, ***Srikar Varadaraj***
Proc. Amer. Math. Soc. 144 (2016)
Preprint: arXiv:1410.1908
• Short presentation at *ICM 2010* on certain developable surfaces (International Congress of Mathematicians)

Teaching

Math Tutor **Summer 2016-Present**
• *Taught students for the GRE, Modern Analysis 1, Modern Algebra 1, PDEs, Linear Algebra.*

Undergraduate Teaching Assistant **Fall 2014-Present**
• *Calculus I - V1101, Modern Algebra 1 - W4041, Analysis of Algorithms 1 - W4231*
• *Discrete Mathematics - W3203, Analysis of Algorithms 1 (Summer Session)*

Honors and Awards

• John Dash Van Buren Mathematical Prize (2017)
• Professor Van Amringe Mathematical Prize (2016)
• William Lowell Putnam Competition - Top 200 (2014)
• I.I.Rabi Scholarship for scientific research (2013-2017)
• International Math Olympiad Training Camp (Top 15) - India (2012,2013)
• KVPY Research Fellowship (2012)
• Represented India at the International Olympiad in Linguistics (2011)
• International Junior Astronomy Olympiad Training Camp - India (2010)

Activities and Interests

• Chess - FIDE (~2100), USCF (~2100). All-American Team - 2007, 2008. Invited to the World Youth Championships as member of team USA, Drew Anand in a simultaneous chess match at ICM (2010)
• Organizational Committee Member of Columbia Japanese Society - (Fall 2014 - Fall 2015)

Programming

• C/C++, Java, Go, Python, LaTeX, Matlab