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)

Masters in Theoretical Computer Science (2017-2018)

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

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

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

- \bullet 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