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

• Modeled and simulated 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

• For a project in Algebraic Topology, generalized results of Clay and Watson for large classes of L-space twisted torus knots — Summer 2014

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

• Delivered a 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 2017

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

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