

Akilesh Tangella

Education

- 2014-Present **University of Pennsylvania, Philadelphia, PA,**
Jerome Fisher Program in Management and Technology
Candidate for Bachelor of Applied Science (Computer Science), Bachelor of Science in Economics (Wharton) (Concentration in Finance), Minor in Mathematics.
Relevant Coursework: Mathematical Foundations of Computer Science, Introduction to Algorithms, Automata, Computability, and Complexity, Probability, Statistical Inference, Real Analysis, Randomized Algorithms, Computational Learning Theory, Algorithmic Game Theory, Adaptive Data Analysis
- 2011-2014 **Ward Melville High School, East Setauket, NY,**
Graduated With Honors.
- 2012-2013 **Stony Brook University, Stony Brook, NY,** GPA: 4.00
Young Scholars Program (Took classes while in high school) .
Relevant Coursework: Multivariable Calculus with Linear Algebra, Differential Equations with Linear Algebra, Analysis of Algorithms

Research Experience

- Fall 2017 - **University of Pennsylvania (Senior Thesis Research),** Mentor: Aaron Roth.
Present
 - Studying differential privacy for tensor decomposition algorithms (especially those that use sum-of-squares optimization).
- Summer **DIMACS REU at Rutgers University,** Mentor: S. Muthukrishnan, Rebecca Wright.
2017
 - Studied differential privacy for various recommendation algorithms.
- Spring 2017 **University of Pennsylvania,** Mentor: Sanjeev Khanna.
 - Studied streaming algorithms for counting triangles in graphs.

Teaching Experience

- Spring 2018 **NETS412: Algorithmic Game Theory,** *University of Pennsylvania,* Teaching Assistant.
- Spring 2017 **CIS320: Introduction to Algorithms,** *University of Pennsylvania,* Teaching Assistant.
- Fall 2015, **STAT430: Probability,** *The Wharton School,* Teaching Assistant.
Spring 2016,
Fall 2016,
Fall 2017

Other Work/Volunteer Experience

- Summer **Sri Sathya Sai Institute of Higher Medical Sciences, Prashantigram (Puttaparthi, India).**
2016
 - Interacted with patients in Telugu and assisted doctors at free hospital in rural India.
- Summer **Heritage Academy (Essiam, Ghana),** Global Ed Intern.
2015
 - Awarded 4000 dollars from Penn's International Internship Program (IIP) to teach math to high school students.
- Summer **School Yourself, Educational Technology,** Summer Intern.
2014
 - Used Python to create review questions for a startup making interactive tools for learning math.

Honors and Awards

Inducted Spring 2017 Tau Beta Pi Engineering Honor Society, Pennsylvania Delta Chapter

Inducted Spring 2017 Eta Kappa Nu Honor Society, Lambda Chapter

2014-2015, 2015-2016, 2016-2017 University of Pennsylvania Dean's List

Programming/Software Experience

Java (intermediate), OCaml (basic), KISS-C (Robot Programming) (basic), \LaTeX (intermediate), Mathematica (basic), Python (basic), R (basic), Excel (intermediate), Matlab (basic), C (basic)

Hobbies

Singing, Basketball, Teaching Math to Kids