

Akilesh Tangella

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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).
Relevant Coursework: Programming Languages and Techniques I and II (Data Structures and Algorithms), Introduction to Algorithms, Corporate Finance, Managerial Economics, Statistical Inference, Real Estate Finance and Investment, Management of Technology, Monetary Economics and the Global Economy

Research Experience

October 2015 **RA @ Penn, Department of Finance, The Wharton School, University of Pennsylvania,** Mentor: Deputy Dean Michael Gibbons.
- Present

- Study financial derivatives and data processing using MATLAB

Summer **High School Research, Department of Applied Mathematics and Statistics, Stony Brook University,** Mentor: Dr. Yuefan Deng.
2013

- Mathematically modeled platelet geometry for potential applications in Computational Flow Dynamic (CFD) simulations of platelet activation and aggregation.

Summer **High School Research, Department of Physics, Stony Brook University,** Mentor: Dr. Ismail Zahed.
2012

- Theoretically studied cold atoms and superfluids.

Teaching Experience

August 2015 **STAT430: Probability, The Wharton School,** Teaching Assistant.
- May 2016

Summer Internship Experience

Summer **Wall Street Investment Management LLC, (wallstim.com).**
2016

- Collect and update market data for visualizations in client presentations.
- Learn about various investing strategies, including monthly re-balancing, using put indexes, and currency arbitrage.

Summer **Sri Sathya Sai Institute of Higher Medical Sciences, Prashantigram (Puttaparthi, India).**
2016

- Gave ideas for potential operational improvements to doctors
- Interacted with patients in Telugu and assisted doctors in free hospital in rural India.
- Delivered a presentation on stroke to nurses.

Summer **Heritage Academy (Essiam, Ghana), Global Ed Intern.**
2015

- Awarded 4000 dollars from Penn's International Internship Program (IIP).
- Taught math to 10th, 11th, and 12th graders, and computer technologies to 10th and 11th graders.
- Helped to digitize the school's academic and business records.

- Summer **School Yourself**, *Educational Technology*, Summer Intern.
2014
- o Used YAML and Python to make review problems for topics including: congruence, similarity, polynomials, pythagorean theorem, etc.
 - o Improved lesson curricula for courses in algebra and geometry that will be subsidized and featured on edX.
 - o Discussed ideas for calculating student mastery of a subject.

Selected Awards

- 2014-2015, University of Pennsylvania Dean's List
2015-2016
- 2014 New York/New Jersey Regional Botball Robotics Competition
1st Place (Overall, Seeding Round), 2nd Place (Double Elimination Round), Best Documentation Award
- 2011-2014 4x Qualifier for the American Invitational Mathematics Examination (AIME)
- 2013 National Advanced Placement (AP) Scholar

Programming/Software Experience

Java (advanced), OCaml (basic), KISS-C (Robot Programming) (basic), \LaTeX (medium), Mathematica (basic), Python (basic), R (basic)

Interests

Singing, Basketball, Teaching, Sports History