

# 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).*  
Relevant Coursework: Programming Languages and Techniques I and II ( Data Structures and Algorithms), Introduction to Algorithms, Corporate Finance, Managerial Economics, Statistical Interference, 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

- o Study financial derivatives and data processing using MATLAB

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

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

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

- o Theoretically studied cold atoms and superfluids.

## Teaching Experience

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

## Summer Internship Experience

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

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

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

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

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

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

Summer 2014 **School Yourself, Educational Technology, Summer Intern.**

- 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.

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## 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

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## Programming/Software Experience

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

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## Interests

Singing, Basketball, Teaching, Sports History