

Lei (Leslie) Lei

Education

- May 2015 **B.S. in Mathematics and Economics**, *Duke University*, Durham, 3.92/4.00.
Concentration in Financial Economics.
– Completed two graduate mathematics courses in freshmen year.
– Currently study Applied Stochastic Process, Introduction to High Dimensional Data Analysis, Representation Theory and History of International Monetary and Financial Crisis.
- Graduated **High School Diploma with Distinction**, *NUS High School*, Singapore, 4.00/5.00.
2008 Honor in Mathematics and Physics with major in Chemistry
– SAT Reading:730, Mathematics:800, Writing:700
– 5 in AP Calculus BC, Statistics, Physics B, Physics C and Chemistry

Experience

- Summer 2012 **Research Assistant/Computer Programmer**, *Economics Department, Duke University*, Durham.
Assisted professor Christopher Timmins on translating econometric numerical procedures from Fortran to R.
– Studied numerical optimization routines and wrote scripts to calibrate various parameters.
– Replicated the functionality of Fortran code with improved speed and readability.
– Implemented two econometric models in R from scratch in six weeks.
- 2012 **Tutor**, *Mathematics Department, Duke University*, Durham.
Mentored student in Linear Algebra and Multivariate Calculus and performed grading task in Problem Solving Seminar.
- 2011 **Observer B**, *Singapore IMO Team*, Singapore.
Assisted in training the team for the International Mathematical Olympiad to achieve overall third place.
– One of the two student teachers responsible for designing curriculum and giving weekly lectures.
– Team total scores ranked third, only behind United States and China, up from 22nd last year.
- Miscellaneous
- 2009–2010 **Full-Time National Serviceman**, *Singapore Armed Force*, Singapore.
Mandatory conscription for all male citizens before entering tertiary institution

Honors/Awards

- 2013 **Dean's List with Distinction**.
Awarded to the top ten percentile in the class of 2015 for spring term 2012 at Duke.
- 2012 **Freshmen Julia Dale Prize in Mathematics**.
Awarded to selected three Duke freshmen in the class of 2015.
- 2012 **Mathematical Contest in Modeling, Meritorious**.
Awarded to 409 teams out of 3697 worldwide.
– Modeled a scheduling problem with constraints as an equivalent form of Traveling Salesman Problem.
- 2008 **International Mathematical Olympiad, Silver**.
One of the six students representing Singapore. Ranked 127 out of 535 worldwide.
- 2008 **Asian Physics Olympiad, Honorable Mention**.
One of the seven students representing Singapore.
- 2007 **International Mathematical Olympiad, Bronze**.
One of the six students representing Singapore. Ranked 226 out of 520 worldwide.

Skills

- Language **Chinese** *Native Speaker*
- Computer Skills
- Knowledgeable C, L^AT_EX, R Good Python, Excel, Mathematica, Git