VICKY CHUQIAO YANG

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Educati	ion
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Education	
Northwestern University	
Ph.D. Engineering Sciences and Applied Mathematics	Expected June 2018
Certificate in Integrated Data Science	Expected June 2017
M.S. Engineering Sciences and Applied Mathematics	2014
Worcester Polytechnic Institute	
B.S. Mathematics; B.S. Physics, (with high distinction)	2013
Workshops and training	
• Data Visualization Summer School, Northwestern	2016
• Mathematical Problems in Industry Workshop	2015
Project and Work Experience	
Northwestern University	2014 - Present
• 'Dynamics of political elections'	
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Develop model, analyze congressional voting records in Python

• 'Why bigger cities have higher rates of inventions and crime?'
Work presented at multiple national and international conferences
Develop model; analyze crime, invention, and email communication data

Argonne National Laboratory (Internship)

2012

• Fluid dynamics and thermal modeling for a cooling mechanism in particle accelerator Present work at Argonne and Fermilab and academic conference

Worcester Polytechnic Institute

2011 - 2013

- 'Model microwave-assisted production of graphene sheets'.
 Reduced computational time from hours to less than a minute.
 Model accurately represents experimental data, and is used in further research Work won multiple awards at national and international conferences
- 'Effect of international accents on employment decisions'
 Design and conduct social experiments, analyze data in SPSS

Leadership Experience

• Co-founder and President, NuTango, Argentine Tango Club at Northwestern	2015 - present
• President, Society for Industrial and Applied Mathematics, Northwestern Chapter	2016 - present
• Exec board member, Northwestern Graduate Leadership & Advocacy Council	2016 - present
• President, Pi Mu Epsilon Math Honorary Society, WPI Chapter	2012 - 2013

Awards and Honors

- Walter Murphy Fellowship, Northwestern University
- First place, Student Paper Competition, Annual Microwave Power Symposium
- Second place, Student Paper Competition, IEEE Student Conference
- Provost's Award for Outstanding Major Qualifying Project, WPI
- Salisbury Prize for Outstanding Senior, WPI

Computer and Programing Skills

MATLAB, Python, Latex, Maple, d3, C, Mathematica, Bash, SPSS, QuickWave3D, Microsoft Office

Selected Coursework

Numerical methods for partial differential equations, probability, statistics, stochastic processes, machine learning, social network analysis, investment science, optimization, linear algebra