

# CYNTHIA ZENG

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## EDUCATION

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**Imperial College London** | BSc in Mathematics

Oct. 2014 - Jun. 2017

First-class honours · top 15% class rank

**Western Academy of Beijing** | International Baccalaureate Diploma

Aug. 2011 - Jun. 2014

International high school · IB grades: 41/45 · Academic awards: Economics, Chinese Literature, and Physics

## ACADEMIC EXPERIENCE

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**MIT Media Lab** | Research Intern

Jun. 2018 - Aug. 2018

Computational social science model to study urban planning issues by incorporating both biological and social factors. Applied multi-agent system to simulate the coupling effect of urban expansion and sea level rise to the mangrove ecosystem in Rio de Janeiro.

**Opinion Dynamics** | Undergraduate Research Project

Jan. 2017 - Jun. 2017

Agent-based modeling approach to study opinion formation in a well-connected social network. Developed mathematical models using statistical mechanics, and computational model in Python. This project intends to explain the paradoxical "Brexit" vote, further applications include election outcome.

**Maths and Mozart** | IB Diploma Research Project

Apr. 2013 - Nov. 2013

Applied three mathematical methods to study the mastery of Mozart's piano sonatas: function transformation and theme variation, sound wave frequency ratio and harmony, golden ratio and section lengths.

## INDUSTRY EXPERIENCE

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**BlackRock Active Equities (London, UK)** | Research Analyst

Jul. 2017 - Jun. 2018

Data scientist for an algorithmic fund, conducted statistical analysis on data sets to generate mid/long-horizon trading strategies. Previously, 9-month rotation to learn fundamental research with exposure to retail, manufacturing and automobile sectors.

**China Bridge Capital (Beijing, China)** | Summer Intern

Jul. 2016 - Aug. 2016

Boutique investment bank, participated in two cross-border M&A deals.

**Shanshui Environmental Conservation Centre (Beijing)** | Summer Intern

Jul. 2014 - Sept. 2014

Developed honey products to encourage sustainable honey farming within panda habitats, led two honey harvesting trips, organised a marketing gala with 100+ guests.

## EXTRA-CURRICULUM ACTIVITIES

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### Volunteering (WWOOFing) Experiences

· Nepal: mountain school teacher, sponsored one disadvantaged student

Summer, 2015

· France: goat's cheese farm in Bretagne, organic farming, self-sufficient living

Winter, 2015

· Taiwan: organic rice farm, gave a talk about the social enterprise industry in China

Summer, 2014

### Leadership Positions

· Imperial College Hiking Society, social secretary

2016/17

· Imperial College Maths Society, vice president

2015/16

· Animal shelter volunteering club, founder and leader

Aug. 2012 - Jun. 2014

### Achievements

· BlackRock Hackathon EMEA Category Championship

Apr. 2018

· 40-mile orientation challenge, completed in 17 hours

Apr. 2016

· Maths championship among international schools in China

May 2011

· Youngest participant of the river preservation act, Yangtze River white-water rafting adventure

Apr. 2009

## SKILLS AND INTERESTS

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**Languages** Mandarin, English, Italian (improving)

**Programming** Python, Matlab, L<sup>A</sup>T<sub>E</sub>X

**Interests** Hiking, yoga, backpack traveling, tennis, philosophy

**Qualifications** CFA Level 1

GRE: quantitative 169, verbal 158, analytical writing 5.0