

# QIYANG ZHANG

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## EDUCATION

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**PhD in Education** *Expected July 2024*  
**Johns Hopkins University, Baltimore, MD**

**M.S.Ed. in Education Policy** *August 2019 - July 2020*  
**University of Pennsylvania, Philadelphia, PA**  
 Grade Point Average: 3.93/4.00

**B.A. in Economics** *August 2015 - June 2019*  
**B.E. in Industrial Systems Engineering, with Honors and Distinction**  
**National University of Singapore, Singapore**  
 Cumulative Average Point: 4.42/5.00

**Summer Program in International Relations** *Summer 2018*  
**Peking University, Beijing, China**

**Semester Exchange Program** *January – May 2018*  
**Georgia Institute of Technology, Atlanta, GA**

## RESEARCH PROJECTS

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**Research Project** *August – December 2019*  
**The cost of illiteracy: a causal inference study on the impacts of illiteracy on physical and mental health**  
 Advisor: Dr. Wendy Chan  
 Graduate School of Education, University of Pennsylvania  
 This paper uses the Chinese Longitudinal Healthy Longevity Survey (CLHLS) to investigate the causal relationship between illiteracy and health. Through nearest neighbor matching, mahalanobis metric matching, and propensity score matching, illiteracy is found to have significant impacts on physical health, exercising habits, anxiousness, loneliness, and happiness.

**Research Project** *August – November 2019*  
**Teacher Salary and Turnover: A Meta-Analytic Literature Review of Teacher Labor Markets in the US and China**  
 Advisor: Dr. Amrit Thapa  
 Graduate School of Education, University of Pennsylvania  
 This comprehensive meta-analysis on the relation between teacher salary and turnover, consisting of 21 studies, seeks to understand contemporary teacher labor markets in the US and China. Effect size estimation results suggest that there is 1) significant negative relation between salary and turnover rate in both countries, and 2) salary is a more sensitive predictor of teacher turnover in China than in the US.

**B.E. Dissertation** *August 2018 – May 2019*  
**Public Versus Private Higher Educational Institutions (HEIs) in ASEAN Countries**

Advisor: Dr. Tan Kay Chuan

Industrial Systems Engineering and Management, National University of Singapore

This B.E. Dissertation analyzed and compared funding resources, operating constraints, target markets, etc. in Malaysia, Thailand, Philippines, Vietnam, Indonesia, and Singapore. Problems, strengths, and policy recommendations were summarized to guide future policy makers in ASEAN higher education field.

### **Research Project**

*February – March 2019*

#### **‘Kampong Spirit’ in Singapore HDB Neighborhood**

Advisor: Dr. Guillem Riambau

Department of Economics, Yale-NUS College

The project aims to analyze the effects of urban spaces and block design on community building and the presence/absence of a “kampong” spirit among neighbors. The surveys are designed to filter out cognitive bias using item count technique in list experiments. As a research assistant, I helped with data collection in HDB blocks and data analysis using Stata.

### **Systems Design Project**

*August 2018 – May 2019*

#### **Building Data Intelligence in Healthcare**

National University of Singapore and Tan Tock Seng Hospital

Advisor: Dr. Ng Kien Ming

Industrial Systems Engineering and Management, National University of Singapore

As a team of 5, we helped Tan Tock Seng Hospital build a user-friendly Dashboard interface, using Tableau software. The finished product captures Key Performance Indicators and improves the management board’s efficiency. It has freed 208 man-hours and saved \$9560 annually with 89% automation.

## **PART-TIME RESEARCH POSITIONS**

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### **Mandarin Language Specialist**

*December 2019 – March 2020*

Corpus of Speech in Natural Environments (COSINE) Project

Linguistic Data Consortium (LDC), University of Pennsylvania

## **PUBLICATIONS AND CONFERENCE PRESENTATIONS**

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Qiyang Zhang, The cost of illiteracy: A causal inference study on how illiteracy affects physical and mental health, Health Education Journal. [Under Review]

Qiyang Zhang and Soumya Mittal, book review of International Mobility and Educational Desire: Chinese Foreign Talent Students in Singapore by Peidong Yang, Perspectives on Urban Education Journal. [Under Review, Expected Publication in Summer 2020]

Qiyang Zhang and Soumya Mittal, Not Losing the Birth Lottery: Inclusion and Diversity in Graduate Programs (Oral Presentation), Graduate Education at Work in the World Conference, Graduate Center, CUNY [Postponed to 1st September 2020]

## **TEACHING EXPERIENCE**

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**Teaching Assistant***January – April 2019*

IE2150 Human Factor Engineering

National University of Singapore Helped prepare lecture material and mentored students for their projects

**Tutor***January – April 2019*

IB Physics, Chinese, IGCSE Combined Science, O-level Physics

Pantheon Education

Taught classes of 8 and took private lessons

**TECHNICAL AND LANGUAGE SKILLS**

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**Statistical Programming and Simulation Programming**

R, Stata, Ithink, Automod

C, C++, Python

**Other Tools**MS Excel, L<sup>A</sup>T<sub>E</sub>X, Adobe Illustrator, basic SQL**Language Skills**

Mandarin (Native fluency), English (Proficient), German (A1 level), Hindi (Intermediate)

**SCHOLARSHIPS AND AWARDS**

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**M.S.Ed. Program Merit Scholarship** *2019* Awarded a USD \$10,000 merit scholarship to pursue a M.S.Ed program at the Graduate School of Education, University of Pennsylvania

**NUS Ph.D. in Economics Research Scholarship (declined)** *2019* Awarded a Research Scholarship to pursue a Doctor of Philosophy in Economics at the Faculty of Arts and Social Sciences, National University of Singapore (declined)

**NUS Bachelor Degree Scholarship** *2015* Awarded the Science and Technology Undergraduate Scholarship for Dual Degree in Engineering and Economics with coverage of tuition, residence, and living allowances

**PROFESSIONAL EXPERIENCE**

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**Sichuan Jinshi Leasing Co., Ltd***May – August 2017*

Chengdu, Sichuan, China

General Account Manager in Airplane Department

Worked on financial leasing contracts and projects worth \$3 million, in co-operation with Shenzhen Airlines; Automated calculations of cash flows and forecasted profits by developing Excel templates and VBA scripts

**Polygon (Chengdu) Precision Mold and Plastics Co., Ltd***May – August 2016*

Chengdu, Sichuan, China

Supply Chain Engineer

Optimized the assembly line and sorting process using ergonomics engineering; Worked under the department of central planning to arrange short-term production schedules according to the customers' requirements using supply chain concepts

**LEADERSHIP AND VOLUNTEERING**

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**President of TFC UPenn Student Association** *July 2019 - Present*

**Volunteer in Ethnography & Education Research Forum** *February 2020 - Present*

**Awards Juror for the 2020 SAWA** *December 2019 – January 2020*

**NUS Chinese Calligraphy Club** *August 2015 – May 2017*

**NUS Chinese Orchestra** *August 2016 – December 2017*

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*Last updated on July 20, 2020*