

QIYANG ZHANG

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EDUCATION

M.S.Ed. in Education Policy

Expected July 2020

University of Pennsylvania, Philadelphia, PA

Relevant Coursework: Economics of Higher Education, Economics of Education in Developing Countries, Introduction to Causal Inference for Educational Research, Education Policymaking and Research Methods, Methods of Economic Evaluation in Education, Education Policy Research Practicum, Advanced Topics in Monitoring & Evaluation of International Education, Survey Methods & Design

B.A. in Economics, with Honors and Distinction

June 2019

B.E. in Industrial Systems Engineering

National University of Singapore, Singapore

Cumulative Average Point: 4.42/5.00

Relevant Coursework: Microeconomic Analysis I & II, Macroeconomic Analysis I & II, Labor Economics, Quantitative Reasoning, Probability, Probability Models with Applications, Decision Modeling and Risk Analysis

Summer Program in International Relations

Peking University, Beijing, China

Summer 2018

Participant in the One Belt One Road Initiative Youth Summit

Relevant Coursework: International Relations and the Rise of China

Semester Exchange Program

Georgia Institute of Technology, Atlanta, GA

January – May 2018

Relevant Coursework: International Economics, Game Theory, Philosophy of Technological Ethics

RESEARCH PROJECTS

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. Matching methodologies control for confounding variables including age, sex, living sites, access to tap water, and financial support. 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. The paper's results confirm external validity of similar findings in the U.S context. Additionally, this paper uniquely finds that illiteracy has a higher cost on mental health as compared to physical health for the elderly in China.

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. Background analysis on countries' percentage GDP investment in education reveals that Chinese government seems to be more determined and consistent in education investment compared to the US government. 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. The paper outlined a broad picture of how the landscape of higher education in ASEAN countries has evolved. 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 Rimbau

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

Mandarin Language Specialist

December 2018 – present

Corpus of Speech in Natural Environments (COSINE) Project
Linguistic Data Consortium (LDC), University of Pennsylvania

PUBLICATIONS AND CONFERENCE PRESENTATIONS

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. [Expected Publication in Spring 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 [Scheduled for 1 May 2020]

TEACHING EXPERIENCE

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

Statistical Programming and Simulation
Programming
Other Tools
Language Skills

R, Stata, Ithink, Automod
C, C++
MS Excel, L^AT_EX, Adobe Illustrator, basic SQL
Mandarin (Native fluency), English (Proficient),
German (A1 level)

ONLINE COURSEWORK

Coursera

2018

What Future for Education? (UCL-IOE)
www.coursera.org/verify/EGHPZW4Y7UQW

SCHOLARSHIPS AND AWARDS

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. Research Scholarship*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

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

Teach for China*July 2019 - Present*

President of TFC UPenn Student Association

Helped organize the China-US Education Summit 2019

EXTRACURRICULAR ACTIVITIES

NUS Chinese Calligraphy Club*August 2015 – May 2017*

Secretary

Co-planned and co-executed the Seventh National Calligraphy Competition and Chinese New Year Calligraphy Event

NUS Chinese Orchestra*August 2016 – December 2017*

Flutist

Performed Chinese flute in Shawn's Movie Festival opening ceremonies in 2017 and 2018

Performed as a Chinese flute solo player in the Chinese Spring Festival celebration