

# Joyce Wang

MACRM CANDIDATE · CLASS OF 2021

☎ (+1) 872-818-2697 | ✉ xiaoxiw@uchicago.edu | 📷 joycelafee | 🌐 xiaoxiwangreen

## Research Interest

**Area of interest:** Economics of Innovation, Environmental Economics, Industrial Organization, Labor Economics, and Macroeconomics.

## Education

### Harris School of Public Policy, University of Chicago

Chicago, U.S.A.

M.A., MASTER OF PUBLIC POLICY STUDIES (CUMULATIVE GPA: 3.81)

Sep. 2019 - Dec. 2021

- Certificate in Research Methods (Advisor: Steven N. Durlauf)

### McGill University

Montréal, Canada

B.ENG, MAJOR IN BIORESOURCE ENGINEERING

Sep. 2011 - Jun. 2016

- Awarded McGill Travel Fund

## Research Experience

### Research Assistant

Chicago, U.S.A

RESEARCH ASSISTANT TO PROFESSOR RICHARD HORNBECK

Oct. 2020 - Current

- Use digitized establishment-level data from the Census of Manufactures to geocode water power sources in the 19th century.
- Data fixing/duplicate checking: fix data entries of manufacturing establishments (capital, labor, materials and products) using reports from census of manufacturing in the 19th century. First manually checked entry errors/duplicates of 20 variables, then wrote flexible Stata codes to automate the procedure once categorized the most common entry errors transcribers made. Reduced the processing time by half.

### Research Assistant

Chicago, U.S.A

RESEARCH ASSISTANT TO PROFESSOR CAROLIN PFLUEGER

Aug. 2020 - Current

- Cleaned, manipulated and merged datasets of 8000 observations on variables including real GDP, inflation rates, and political leader turnover across country and time. Wrote flexible python programming.

### Research Assistant

Chicago, U.S.A

RESEARCH APPRENTICESHIP WITH PROFESSOR DURLAUF

Mar. 2021 - Current

- Replicate studies on intergenerational mobility using PSID data, cleaned, merged and analyzed trends using rank-rank income mobility data.
- Conducted literature reviews on the Great Gatsby curve linking different measures of inequality and mobility.

## Relevant Coursework

**Economics:** Advanced Microeconomics I & II, Econometrics I, II & III, Game Theory, Macroeconomics, Firm Dynamics.

**Math:** Probability Theory, Linear Algebra, Multivariate Calculus, Differential Equations, Real Analysis, Numerical Analysis.

**Policy:** Program Evaluation, Analytical Politics I & II, Data and Programming for Public Policy I.

## Honors, Awards & Certificate

2019 **Scholarship**, Merit-based Scholarship for Public Policy Student

Chicago, U.S.A

2019 **Class of 2020**, CGI U Commitment Maker at Clinton Foundation

Edinburgh, U.K.

2014 **Award**, McGill University Mobility Undergraduate Award

Montreal, Canada

2011 **Finalist**, World IB Brain Triathlon Finalist in SP Jain School of Global Management

Singapore

2019 **Certification**, Passed CFA Level 1

Beijing, China

## Skills

### Programming

**Proficient:** Python (Numpy, Scipy, Pandas, Scikit-Learn, Selenium, Matplotlib etc.), Stata, R (tidyverse, ggplot2), MATLAB, LaTeX;

**Familiar:** SQL, EViews, Mathematica, ArcGIS

### Languages

English(bilingual proficiency), Chinese(native), French(limited working proficiency)

## Teaching

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2020-09 **Harris Math Camp**, Three-week review course in mathematical concepts for first-year MPP student

Chicago, U.S.A

2020-09 **Advanced Microeconomics**, Teaching Assistant for first-year MPP core course in microeconomics

Chicago, U.S.A

## Professional Working Experience

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### The Embassy of Canada to China in Beijing

Beijing, China

SENIOR SCIENCE AND TECHNOLOGY AND INNOVATION (STI) ASSISTANT

Apr. 2019 - Jul. 2019

- Researched on university technological transfer policy across universities focused on STEM education in China. Used excel to manipulate, clean and visualize datasets on universities' patent registration, funding amount, etc.
- Researched on potential collaborative sectors of mutual interest between Canada and China, including Agtech, Cleantech, Healthcare and ICT; mapped out the funding schemes in industrial, government, and educational bodies for STI research and development in China.
- Prepared STI related policy briefs to STI counsellor; occasionally prepared diplomatic notes for initiating outreach meetings.

### The Canadian Chamber of Commerce in Shanghai

Shanghai, China

MEMBERSHIP MANAGER

May. 2017 - Dec. 2018

- Managed membership activities of CanCham Shanghai; provided support and advice to the Executive Director in strategic planning and development goals to further members' understanding of the Chinese markets.
- Liaised with local government bodies, industrial groups and business communities to better serve member's needs by making effective business referrals and connecting them with local communities (ex: helped Tim Hortons China with their preliminary market positioning).

### Humanitas Inc.

Montréal, Canada

BUSINESS ANALYST

Jan. 2019 - Apr. 2019

- Conducted preliminary industry analysis of the applications of mesh telecommunication technologies company developed in 3 distinct commercial applications: precision agriculture, wearable IoT devices and edge computing.

### Green Innovation Engine | GREIEN

Montréal, Canada

CO-FOUNDER

Dec. 2016 - May. 2017

- Led a team of 5 to conduct industrial analysis of waste-to-energy plants in Canada, including in-depth analysis of the upstream and downstream industries; Conducted interviews with a Canadian cleantech company and prepared business case competition for students' participation
- Pitched to university spin-out cleantech startups and successfully convinced two cleantech companies to GREIEN Sparks summer program, in which undergraduate worked as market consultants for cleantech startups.

### United Nations Environment Programme - Division of Early Warning and Assessment

Nairobi, Kenya

INTERN - ENVIRONMENT MANAGEMENT ON CLIMATE CHANGE

Sep. 2014 - Feb. 2015

- Researched and monitored organizations focused on climate change studies and developed collaboration strategies.
- Monitored climate finance sources and assessed availability to project application and drafted proposals on climate change adaptation projects, resulting in the creation of UNEP-Tongji PROVIA Visiting Fellows Programme.