

# Yida (Joseph) Wang

## SUMMARY OF QUALIFICATIONS

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- **Writing and Research Skills** – Proficient in drafting policy memos, briefs, reports, and program evaluations; Exceptional ability in translating technical research papers; Strong background in data collection and background research; In-depth knowledge of policy and data analysis using both quantitative and qualitative research methods
- **Computer Skills** – Highly proficient in R for statistical analysis and data management and Tableau for data visualization; Working knowledge of QGIS, ArcGIS, and GeoTime for geospatial analysis; Familiarity with Stata, SPSS, and NVivo for data analysis, as well as Python and SQL for data manipulation and management; Highly proficient in survey tools for qualitative data collection, including Survey Monkey and Qualtrics; Experience in virtual reality equipment and setup
- **Interpersonal Skills** – Excels in project management; Proficient in English (advanced) and Mandarin (advanced); High level oral and communication skills; Cultivates and fosters long-term partnerships with external agencies

## EDUCATION

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### **Masters of Science, Criminology**

*University of Pennsylvania*

August 2015 – May 2016

- Concentration in criminal justice policies, alternatives to incarcerations, policing strategies, policy analysis, and program evaluations

### **Bachelor of Arts, Honors, Criminology and Sociology**

*University of Toronto, St. George*

September 2011 – June 2015

## EXPERIENCE

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### **Project Manager (Embedded Research)**

*Crime & Education Lab (University of Chicago), Chicago, IL*

July 2020 – December 2020

- Managed a number of large-scale collaboration projects for senior command of the Chicago Police Department to meet Consent Decree orders; Applied evidence-based methodologies for public safety strategies and policies
- Used Hive and other tools to track and review project activities to ensure deliverables meet goals and deadlines
- Prepared data visualizations, statistics, memos, and presentations for grant proposals and reports
- Developed and implemented data-driven initiatives and optimizations for partner agencies
- Managed internal and external communications with stakeholders

### **Research Analyst (Embedded Research)**

*Crime & Education Lab (University of Chicago), Chicago, IL*

June 2018 – June 2020

#### **Role within the Chicago Police Department:**

- Spearheaded the first project collaboration with the CPD's Bureau of Detectives
- Generated analytical reports and deep dives on crime trends and patterns for Chicago Police Department command staff with R, Tableau, and ArcGis/QGIS using highly sensitive law enforcement/ public health data
- Provided technical expertise to Bureau of Detectives on a wide array of software, including GeoTime for geospatial analysis, GSpot for H.264 (advanced video coding), Camtasia and iNPUT-ACE for video editing analysis, Amped FIVE for video and image enhancement, and Cellebrite for cellular data analysis
- Consultant/advisor to the District Commanders and Deputy Chiefs on crime trends and patterns, as well as identified and resolved operational challenges through briefings and analytical reports
- Acted as project lead on several city-wide crime & CPD personnel analysis projects, including Motor Vehicle Theft Analysis and City-Wide End of Year Report

#### **Role within Office of the Mayor – City of Chicago:**

- Sole analyst on the South Side Violence Prevention Coordination team for the Deputy Mayor of Public Safety
- Created bi-weekly analytical reports focused on homicides and shootings for the South Side of Chicago and presented the report at the bi-weekly Coordination Meeting in front of an audience from the Mayor's Office, the State's Attorney's Office, CPD senior command, community/grassroot organizations, Chicago Park District, and UChicago Medicine among others
- Attended weekly meetings at City Hall to discuss the most critical and pertinent public safety issues in Chicago
- Created neighborhood analysis for Chicago Alderman (City Council) using Tableau and R

**Role within the University of Chicago (Crime Lab)**

- Created reports for the Cook County State's Attorney's Office, including Narcotics Hotspot Map Analysis
- Provided technical assistance and quality assurance for other analysts and researchers
- Built relationships and networking with different CPD divisions and outside organizations, including CTA (Chicago Transit Authority), FBI, ATF, the Mayor's office, and the State's Attorney's Office
- Presented innovative data visualization using Tableau dashboards and new approaches to smart policing at the Analyst Challenge during the Crime Fighters Conference – Chicago 2018; the panel judges included CPD Chief of Bureau of Technical Services and LAPD Deputy Chief of Detectives

**Senior Market Researcher*****Explorer Research, Toronto ON***

September 2016 – June 2018

- Analyzed shopping behavior and how consumers interact with products and environments
- Acquired SPSS skills for data management and inferential statistical analysis
- Conducted interviews and focus groups using eye tracking glasses, visual exercises, VR headsets, and survey programs, including Quatrics and Survey Monkey
- Coded open-ended survey responses and video data obtained from eye tracking glasses
- Traveled to the U.S. to lead field studies by providing in-person field staff training
- Assisted and collaborated with senior researchers in creating experiment designs and templates
- Troubleshoot technical issues
- Trained and shadowed research assistants for new projects
- Used Tobii Pro for video coding and eye tracking, Emotiv System for conducting electroencephalography (EEG) to monitor brain wave activities, and Shimmer for measuring galvanic skin response
- Worked with clients ranging from Fortune 500 companies to government agencies

**Graduate Student,*****University of Pennsylvania, Department of Criminology***

August 2015 – May 2016

- Conducted a study to determine which types of 9-1-1 calls increased during the period of Mardi Gras; Statistical analysis was performed using R software and the VCD (Visualizing Categorical Data) package
- MS Thesis: conducted a study using R package to determine if the ethnicity of citizens affected perceptions of police legitimacy during a stop; Logistic regression and propensity score analysis were used to measure African American citizens' perceptions of police stop legitimacy versus non-black citizens; Data was obtained from the PPCS (Police Public Contact Survey) - part of the larger NCVS (National Crime Victimization Survey)

**Research Assistant*****Quattrone Center (University of Pennsylvania Law School)***

November 2015 – March 2016

- Gathered data on street and prison gangs in Florida through court and police files
- Examined how the criminal justice system responds to prison gangs
- Analyzed prison gang activities and behaviors

**Research Assistant*****University of Toronto***

May 2015 – July 2015

PI: Professor Jooyoung Lee

- Processed over 30 CCTV video footages
- Utilized numerical and categorical variables to create research templates for video coding
- Conducted comparative analysis of different research methodologies
- Demonstrated high self motivation and self management by attending bi-weekly team meetings to present ideas and update team on research progress

**Research Assistant*****University of Toronto***

April 2015 – July 2015

PI: Dr. Sasha Reid

- Created 25 profiles of serial killers for an independent research paper seeking to discuss the evolution of the concept of serial homicide throughout history
- Utilized variety of databases to effectively create and compile comprehensive profiles of serial killers
- Displayed strong ability in time management by consistently meeting deadlines