

# CHRISTINE CHUNG

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EDUCATION	<b>M.S. Computational Analysis and Public Policy</b>	June 2017 (expected)
	Harris School of Public Policy, University of Chicago	Chicago, IL
	<i>Course Highlights: Algorithms, Intro to Computer Security, Computational Data Analysis, Big Data, Databases, Machine Learning for Public Policy, Statistics, Econometrics, iOS Development</i>	
	<b>B.A. Social Thought and Political Economy</b>	2013
	University of Massachusetts	Amherst, MA
	<b>A.A. Renewable Energy &amp; Energy Efficiency</b>	2011
	2011 Greenfield Community College	Greenfield, MA
FELLOWSHIPS	<b>Chicago Mayoral Fellow</b>	<i>Office of the Mayor, City of Chicago, IL (June – Dec 2016)</i>
	Delivered policy recommendations, data analysis and visualizations, and GIS maps to Mayor's staff for projects focused on driverless vehicles, public safety, absenteeism, and the environment.	
	<b>Fulbright-Hays Fellow</b>	<i>Xi'an, Shaanxi, China (Jan – Aug 2013)</i>
	Conducted qualitative research on differences between American and Chinese business culture, interned at an automation start-up, and led cultural exchanges to local schools.	
SELECTED PROJECTS	<b>MeetHalfway.io</b>	<i>Web Application, Winter 2016</i>
	<i>Python, Django, JavaScript, HTML, CSS, Bootstrap, jQuery, GoogleMaps API, SQLite</i> Built a Django app to suggest halfway meeting locations for two users, allowing for specification of preferred venue and transportation options. Engineered an algorithm to find midway point by time travelled using multiple modes of transportation.	
	<b>Bias Detection in Chicago Police Misconduct Investigations</b>	<i>Research, Spring 2016</i>
	<i>Python, scikit-learn, PostgreSQL, Pandas, NumPy, PostGIS, Shapely</i> Devised novel technique using supervised machine learning to detect bias in the outcomes of police complaints. Compared the effectiveness of different models trained on “biased” and “unbiased” feature sets, i.e. selectively withholding complainant demographic data.	
SKILLS	<b>Programming Languages:</b> (proficient) Python, SQL; (basic) Java, JavaScript, HTML, CSS, Swift <b>Technologies &amp; Software:</b> Spark, AWS, Azure, PostgreSQL, Elasticsearch & Kibana, MongoDB, Adobe Creative Suite, Mac, Windows, and Linux Platforms, Git and Github, Stata, R, Tableau, ArcGIS	
LEADERSHIP & VOLUNTEERING	<b>2016 Hillary Chicago Campaign</b> — data wrangling for a predictive modeling of volunteerism	
	<b>2016 UChicago ScopeAthon Event Organizer</b> — organized hybrid hackathon/case competition to teach project scoping skills. Student teams developed solutions to data challenges for civic orgs	
	<b>South Side Civic, Co-President</b> — led student group focused on community building and connecting tech talent to civic organizations on Chicago's South Side, 2016 - 2017	
	<b>UChicago Civic Hackathon, Winner</b> — team developed a plan to improve productivity and efficiency for the Cook County Department of Facilities Management, October 2015	
WORKSHOPS	<b>Intro to Programming &amp; Python for Policy Makers</b> , July 2016 for Chicago Mayor's Staff <b>Mob Programming in Markdown &amp; LaTeX</b> , May 2016, South Side Civic Workshop	
LANGUAGE	<b>Mandarin Chinese</b>   Chinese Proficiency Test (HSK) Level 4 (limited working proficiency)	

## PROFESSIONAL EXPERIENCE

### DATA SCIENCE & SOFTWARE ENGINEERING RESEARCH ASSISTANT

*CrimeScape | Chicago, IL*

*Aug 2016 – Present*

- Front and backend development of user-facing web app to map and explore crime predictions for different cities using React, Django, Leaflet, and PostgreSQL
- Developed an automated and scalable pipeline for continual data collection, transformation, and prediction generation using bash, Python, PostgreSQL, AWS, and R

### SOFTWARE PROJECT MANAGEMENT RESEARCH ASSISTANT

*Center for Robust Decision Making on Climate and Energy Policy (RDCEP)*

*Computation Institute | Chicago, IL*

*Jan 2016 – June 2016*

- Project management for cloud platform to discover and explore large climate datasets
- Developed project scope and user requirements through user interviews with computer, climate, and social sciences researchers
- Assisted with back and frontend development using PostgreSQL, Python, and JavaScript

### INTERNATIONAL PROJECT COORDINATOR

*Education Development Center, Inc. | Waltham, MA*

*Dec 2013 – Aug 2015*

- Established data collection and analysis protocols for monitoring and evaluation
- Trained field staff in administrative and financial management procedures
- Reviewed contracts for and monitored performance of subcontractors and grantees
- Wrote quarterly reports, including policy recommendations and data visualization

#### *USAID-funded Projects*

**Basa Pilipinas, Philippines:** \$23M project aimed at improving the reading skills of 1M children in Filipino, English, and selected mother tongues by 2015.

**Mindanao Youth for Development, Philippines:** Five-year project that focused on improving employability for out-of-school youth in conflict-affected areas in Mindanao.

**Advancing Youth Project, Liberia:** \$25M project aimed at increasing access to alternative basic education, leadership training, and livelihoods for out-of-school youth.

### BUSINESS DEVELOPMENT INTERN

*Dragonfly Automation Software | Xi'an, Shaanxi, China*

*June – Aug 2013*

- Drafted new business contract in Mandarin
- Liaison for Chinese engineers and European or North American partners
- Coordinated weekly cultural exchange and skill sharing meetings

### ONLINE PROJECTS MANAGER

*EarthAction International | Amherst, MA*

*April 2011 – Dec 2012*

- Spearheaded design overhaul of new website using HTML, CSS, and Typepad
- Wrote, designed, and distributed monthly advocacy emails to 2,600 global partners
- Managed projects for advocacy campaigns, fundraising drives, and social media presence
- Oversaw the work of six interns

### CLIMATE AND ENERGY OUTREACH INTERN

*Union of Concerned Scientists | Cambridge, MA*

*May 2010 – Jan 2011*

- Directed written and visual content development for climate campaign outreach materials
- Managed online community of students and scientists to take action on climate change
- Ran a temporary office in Los Angeles, CA for 2010's "NO on PROP 23" campaign.