cell (978) 987 – 0132   **email** cszchung@gmail.com   **web** christinechung.me   **code** github.com/cszc

CHRISTINE CHUNG

EDUCATION

M.S. Computational Analysis and Public Policy   June 2017 (expected)
Harris School of Public Policy, University of Chicago   Chicago, IL
Course Highlights: Algorithms, Intro to Computer Security, Computational Data Analysis,
Big Data, Databases, Machine Learning for Public Policy, Statistics, Econometrics, iOS Development

B.A. Social Thought and Political Economy   2013
University of Massachusetts   Amherst, MA

A.A. Renewable Energy & Energy Efficiency   2011
2011 Greenfield Community College   Greenfield, MA

FELLOWSHIPS

Chicago Mayoral Fellow   *Office of the Mayor, City of Chicago, IL (June – Dec 2016)*
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.

Fulbright-Hays Fellow   *Xi'an, Shaanxi, China (Jan – Aug 2013)*
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

MeetHalfway.io   *Web Application, Winter 2016*
Python, Django, JavaScript, HTML, CSS, Bootstrap, jQuery, GoogleMaps API, SQLite
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.

Bias Detection in Chicago Police Misconduct Investigations   *Research, Spring 2016*
Python, scikit-learn, PostgreSQL, Pandas, NumPy, PostGIS, Shapely
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

Programming Languages: (proficient) Python, SQL; (basic) Java, JavaScript, HTML, CSS, Swift
Technologies & Software: Spark, AWS, Azure, PostgreSQL, ElasticSearch & Kibana, MongoDB,
Adobe Creative Suite, Mac, Windows, and Linux Platforms, Git and Github, Stata, R, Tableau, ArcGIS

LEADERSHIP &
VOLUNTEERING

2016 Hillary Chicago Campaign — data wrangling for a predictive modeling of volunteerism
2016 UChicago ScopeAthon Event Organizer — organized hybrid hackathon/case competition to
teach project scoping skills. Student teams developed solutions to data challenges for civic orgs
South Side Civic, Co-President — led student group focused on community building and
connecting tech talent to civic organizations on Chicago's South Side, 2016 - 2017
UChicago Civic Hackathon, Winner — team developed a plan to improve productivity and
efficiency for the Cook County Department of Facilities Management, October 2015

WORKSHOPS

Intro to Programming & Python for Policy Makers, July 2016 for Chicago Mayor's Staff
Mob Programming in Markdown & Latex, May 2016, South Side Civic Workshop

LANGUAGE

Mandarin Chinese | 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
- Interviewed potential users from the computer, climate, and social sciences and wrote project specifications and user requirements
- 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.