

Sean Andrew Chen

PERSONAL DETAILS

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ACADEMIC EXPERIENCE

NEW YORK UNIVERSITY 2017 - 2019

Center for Urban Science & Progress (Tandon School of Engineering)

M.S. in Applied Urban Science & Informatics

Coursework in Data Science, Spatial Analytics, Operations Research, Urban Policy & Planning

PRINCETON UNIVERSITY 2014 - 2018

Woodrow Wilson School of Public & International Affairs

Masters in Public Affairs

Scholars in the Nation's Service Initiative (SINSI) Fellowship

Concentration in Developmental Economics & Economic Policy

Certificate in Urban Planning & Policy

PRINCETON UNIVERSITY 2009 - 2014

Woodrow Wilson School of Public & International Affairs

A.B. in Public & International Affairs

Certificates in Urban & Environmental Studies

UNIVERSITY COLLEGE LONDON 2011 - 2012

The Bartlett School of Planning

Gap Year Study

Coursework in City Planning, Transport Planning, & Urban Economics

THE JUILLIARD SCHOOL 2005 - 2009

Pre-College Division

Certificate of Study in Violoncello Performance & Musical Composition

Coursework in Theory, Ear Training, Counterpoint, Chamber & Orchestral Performance

PROFESSIONAL EXPERIENCE

DATA SCIENCE FOR SOCIAL GOOD

Summer 2018

University of Washington

- Competitive and paid fellowship for the summer of 2018 whereupon fellows will be given socioeconomic problems from partner organizations in the Seattle metropolitan area and will use data science and computational social scientific methods to analyze the problem, use visualization to communicate with community members, and to propose policy solutions. One potential project is to use machine learning to automatically tag areas of damage from post disaster remote sensing images.

US ARMY CORPS OF ENGINEERS

June 2015 - June 2017

Scholars in the Nation's Service Initiative Fellow (SINSI)

Institute for Water Resources (Washington, DC)

June - August 2015 & March - June 2017

- The Institute for Water Resources (IWR) is the internal think tank of the Corps of Engineers, tasked with producing innovations in hydrology, engineering, planning and economics.
- Evaluated new technologies such as UAVs and the Internet of Things for their utility to the Corps.
- IWR provided details to various districts across the country and an international development project in Thailand.

Omaha District (Omaha, NE; Denver, CO; Tribal Lands)

September 2015 - March 2016

- Gained proficiency with Corps' economic analysis procedure for flood risk management including the computer models HEC-FDA and HEC-FIA by attending course at the Hydrological Engineering Center in Davis, CA. Expertise includes real estate inventory appraisal and damages estimation.
- Economist on flood risk management and ecosystem restoration project on the Lower Platte River and local gulches in Denver, CO.
- Developed Social Vulnerability Index on neighborhoods within project area.
- Facilitated public meetings in Denver and meetings with partner agencies - EPA, FWS, Colorado DNR, City and County of Denver.
- Tribal work included representing the Corps at the Missouri River Restoration Implementation Committee November 2015 meeting in Rapid City, SD, consultation of the Standing Rock Sioux Reservation, and compilation of a Socioeconomic and Cultural Resources Report on Tribes within the Missouri River Basin.
- Represented the Corps at the annual HAZUS conference at CDC in Atlanta with UNO professor as part of research on creating more accurate flood damages estimation models.

Bangkok & Udon Thani, Thailand

March 2016 - October 2017

- Work in Thailand was sponsored by an IWR scientist working on climate change and urbanization in Southeast Asia partnering with USAID and the ADB.
- Project focused on the Isaan city of Udon Thani, requiring living in Udon Thani for several months and Bangkok for over six months.
- Project culminated in two different workshops dedicated to supporting a public participatory method of decision making for the metropolitan region of Udon Thani for adapting to urbanization, climate change, and water resource issues such as flooding and drought.
- To ensure workshop participation, developed an interactive and graphically interfaced hydrological, land use and economic model for a serious gaming session.
- Working directly with the city and province as well as a Bangkok based landscape architecture firm, created a site suitability analysis for the implementation of green infrastructure through remote sensing land classification, land cover change detection, and land use modeling.

Jacksonville District (Jacksonville, FL; San Juan, PR; Mobile, AL)

November 2016 - March 2017

- Formulated plan for improvements to the San Juan Harbor in Puerto Rico.
- Gained proficiency in Corps' navigation project procedures at the Deep Draft Center of Expertise in the Mobile District.

WHITE HOUSE SC2 INITIATIVE

Summer 2013

Washington, D.C. (US Department of Housing & Urban Development)

Policy Analyst

- Drafted daily memo for White House, Treasury and HUD staff on urban issues, particularly on the unfolding Detroit municipal bankruptcy.
- Researched and compiled best practices for urban economic revitalization programs to disseminate amongst participating cities in program.
- Analyzed municipal bond ratings of candidate cities for new program creating recommendations on which cities were most distressed in terms of credit worthiness and debt.
- Reviewed candidate city applications for new program.
- Participated in meetings regarding efficacy of programs and policies of council held at the White House Executive Office Building as well as at HHS, EPA, and HUD.
- Organized site visit to participating city of Chester, PA, meeting with local stakeholders and officials, evaluating and assessing their needs.
- Facilitated UPenn PennPraxis program with the city of Chester, PA so that PennPraxis would conduct pro bono urban planning for the city.

NEXT CITY

Summer 2012

Philadelphia, PA

Reporter & Multimedia Production

- Wrote comprehensive articles on urban issues in the United States and abroad, including stories on affordable housing in the Philadelphia metro area and urban pension reform around the country for leading national urban affairs magazine.

THE STREET PLANS COLLABORATIVE

Summer 2012

Brooklyn, NY

Research Associate & Graphic Designer

- Developed report on "Tactical Urbanism" strategies, including visual instructions for planning practitioners.
- Researched the economic benefits of street food vending, the legal challenges to such economic activities, and policy solutions to these legal, social and cultural barriers.

PAUL GOLDBERGER

September 2010 - May 2011

New York, NY

Research Assistant

- Researched architects and projects for upcoming pieces and critiques for Pulitzer Prize winning former *New York Times* and *New Yorker* architectural critic.

ACADEMIC AWARDS, FELLOWSHIPS, & OTHER HONORS

SCHOLARS IN THE NATION'S SERVICE INITIATIVE

Woodrow Wilson School of Public & International Affairs

- Competitive fellowship and scholarship program awarded to five students per year which provides admission into the Woodrow Wilson School's MPA program, a paid summer internship within the federal government, a summer of intensive language training, and a placement into a two year federal position.

CUSP ACADEMIC SCHOLARSHIP

NYU Center for Urban Science & Progress

- Awarded merit scholarship to pursue the M.S. in Applied Urban Science & Informatics at the New York University Center for Urban Science & Progress

PACIFIC STANDARD 2017 "TOP 30 THINKERS UNDER 30"

Pacific Standard Magazine

- Honored by Pacific Standard magazine as one of their 2017 "Top 30 Thinkers Under 30" and profiled for magazine story focusing on career and achievements.

ACADEMIC PRESENTATIONS & PUBLICATIONS

The Chronicle for Higher Education

July 2017

The Chronicle Review

- Published book review and essay on Benjamin Barber's *Cool Cities* in nationally read and respected newspaper for special edition on urban issues.

Shanghai Study Centre

July 2014

Hong Kong University Faculty of Architecture

Shanghai, PRC

- Urbanization in China: Past, Present, Future conference co-hosted by the Princeton University School of Architecture and the Hong Kong University Faculty of Architecture, with guest professors from Tokyo, Tongji, Princeton, and Hong Kong Universities. Presented original research on IT infrastructure investments impact on urban economic development and an investigation into the failures of Smart City technologies.

SKILLS

<i>Language</i>	Mandarin (Conversational) Japanese (Conversational)
<i>Programming</i>	Python, Java, R, JavaScript Unix Shell Scripting L ^A T _E X SQL & PostGIS
<i>GIS</i>	ESRI ArcGIS, QGIS, GRASS & SAGA OGR/GDAL/OSGeo
<i>Multimedia</i>	Adobe Creative Suite (Photoshop, InDesign, Illustrator) Logic Pro & Final Cut Pro Documentary Filmmaking & AP Style WordPress, HTML, & CSS

SELECTED COURSEWORK IN URBAN PLANNING & POLICY

Woodrow Wilson School

Planning Theory & Process

Planning Methods

Urban Economic Development

Urban Economics

Smart Cities Policy Workshop

GIS for Public Policy

Resuscitating Inner City Neighborhoods

Theories of Housing & Urbanism

Bartlett School of Planning

Transport Policy & Planning

Development Project: Regeneration Plan Making

Urban Form & Formation

Economics of Cities & Regions

Planning for a Changing Countryside

Urban & Environmental Politics

SELECTED COURSEWORK IN ECONOMICS & PUBLIC POLICY

Woodrow Wilson School

The Politics of Policy

Psychology for Policy Analysis & Implementation

Microeconomic Analysis (Advanced)

Macroeconomic Analysis

Economic Analysis of Development (Advanced)

Information Technology & Public Policy

SELECTED COURSEWORK IN QUANTITATIVE METHODS

Woodrow Wilson School

Machine Learning for Policy Analysis

Econometrics & Public Policy (Advanced)

Quantitative Methods for Public Policy (Advanced)

Center for Urban Science & Progress

Principles of Urban Informatics

Monitoring Cities

Applied Data Science