

CHENG REN

530 Kinkead Way Apt204, Albany, CA 94706 | Tel: 216-971-5931 | cheng.ren@berkeley.edu

education

- **Ph.D. student in Social Welfare**

Designated Emphasis in **Computational and Data Science and Engineering**

- University of California at Berkeley, Berkeley, CA 08/2018-present

Departmental fellowship award

GPA 3.91/4.0

Applied Data Science Certificate (in progress)

Data Scientist with R Track Certificate (Datacamp, 04/2019)

- **Master of Science in Social Administration**

- Case Western Reserve University, Cleveland, OH 09/2015 - 05/2017

GPA 3.53/4.0

- **Bachelor of Arts in Communication**

- Shanxi University, Shanxi, China 09/2011 - 06/2015

GPA 85/100 & Rank 8/41

Outstanding Graduates, Second/Third Prize and Excellent Student Scholarship Award

experience

- **D(Data)-Lab**, Berkeley, CA

Data Science Consultant 10/2019 – present

- Provided consulting service for the students with **R**, **Python**, **geographic information system (GIS)** and **machine learning** questions at University of California, Berkeley
- Collaborated with students in one **Kaggle** competition and increase the prediction rate from 83% to **90%** via an **NLP model**. Finally, we got **No.4** among the total 50 teams
- Helped students build their research design and make their research project move forward

- **Guizhou Berkeley Big Data Innovation Research Center**, Berkeley, CA

Research Associate/Data Scientist 09/2017 – 07/2018

- Conducted literature reviews about left-behind children and aging service in China for Professor Susan Stone and Professor Andrew Scharlach; helped prepare reports and presentations
- Cleaned and analyzed government data from four departments in Guiyang via R and Python as a **coder supervisor**, wrangling over **1 million individuals'** information **linked through 200+ tables**
- Assisted Guiyang city government **establish rules** for collecting data and building datasets
- Provided consultation on how to apply data science to social goods and related policies

- **Harvard SEED**, Cambridge, MA

Program Coordinator/Course Designer 11/2016 – 07/2018 (Remotely)

- Planned, designed and organized a 15-day social innovation camp for SEED, bringing together scholars, business and organization leaders from both U.S. and China as mentors for 45+ fellows
- Designed program evaluation courses for the training and helped them start their own datasets

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- **Center on Urban Poverty and Community Development**, Cleveland, OH
Research Assistant 08/2016 – 08/2017 (Part time)
 - Helped maintain the Northeast Ohio Community and Neighborhood Data for Organizing dataset (NEO CANDO) and Neighborhood Stabilization Team Web Application (NST) and **provide data training for students and community residents**
 - **Designed surveys** to gather information and feedback from users for Community Profile Website and prepare GIS (online and offline) maps for communities and other **geographic analyses** for the organizations
 - Used SAS, R, Python and ArcGIS to **analyze large-scale data for research papers** and generate data stories or reports, such as Lead Exposure Survey
- **Neighborhood Connection**, Cleveland, OH
Intern 08/2015 - 08/2016
 - Collected and sorted data from grant proposals. Used data to create a networking map among the community members. Reviewed grant proposals and managed budgets
 - Prepared brochures and shared the information in communities. Visited local non-profit organizations and gather information about training opportunities around Cleveland. Combined this information together and made brochures for the residents
 - Pioneered a one on one interview program to understand residents' perception of neighborhood, explored Cleveland diverse communities and wrote materials for marketing item

projects

- **UNICEF Asian Pacific Youth Innovation Challenge**, Kuala Lumpur, Malaysia
Co-leader 09/2016 - 11/2016
 - Developed a proposal of “Independent Account for Health Services” to address affordable health care issues for women and left behind children
 - Selected in the final round of competition from 660 participants in 17 Asia Pacific countries (45/660)
 - Attended the 3rd Asian Pacific High-Level Meeting on Children Rights as a youth representative
- **Student Research Training**, Provincial Education Department, Shanxi, China
Team Leader 05/2013 - 04/2014
 - Led group discussion, which includes setting a timetable, assigning people to tasks based on individual skills
 - Designed solutions to raise awareness for environmental problems, conducted analysis of the reports from mass media and the questionnaires from the public
 - Praised by the journalists from Shanxi Daily and Shanxi Evening Paper
- **Media Image of College Students Village Officer Investigation**, Shanxi, China
Team Member 12/2012 - 04/2013
 - Participated in the project with a senior student, focusing the situation of college student village officer and the development of villages in China
 - Self-taught statistics knowledge. Independently gathered all the quantitative data analysis for the questionnaire. Gathered empirical data for analysis through personal interviews
 - Won a report from China Youth Daily for group investigation_
http://zqb.cyol.com/html/2013-07/12/nw.D110000zgqnb_20130712_1-08.htm

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publications

- Chow, J. C.-C., Cai, Y., Gu, T., Lyu Y., **Ren, C.**, Stuart M., Stone, S., (2019). Research on Rural Left Behind Children Welfare Policy Supported by Big Data. *Social Security Studies*, 72-80. Retrieved from <http://kns.cnki.net/kcms/detail/42.1792.F.20191015.1721.015.html>
- Chow, J. C.-C., **Ren, C.**, Mathias, B., & Liu, J. (2019). InterBoxes: A social innovation in education in rural China. *Children and Youth Services Review*, 101, 217-224. <https://doi.org/10.1016/j.childyouth.2019.04.008>
- Cai, Y., Chen, S., **Ren, C.**, (2019). Research on the Impact of Executive-Employee Compensation Gap on Corporate Performance -Based on Panel Threshold Regression Analysis of China A-stock Listed Companies on Shanghai Stock Exchange and Shenzhen Stock Exchange. *Journal of Beijing Technology and Business University (Social Sciences)*. 34(2):52 -62. (in Chinese)
- **Ren, C.** (2013). Knowledge Spread Under the View of Innovation Diffusion - Take TED Speech as an Example.”. *Today's Mass Media*, 52-53. Retrieved from 10.3969/j.issn.1672-8122.2013.11.024. (in Chinese)
- Stuart, M., **Ren, C.**, Chow, J. C. C., (Under Review). **Computational Social Welfare: Applying Data Science in Social Work.** *Oxford Online Bibliography*.
- Stuart, M., **Ren, C.**, (in preparation). **Introduction to coding in R for social workers:** Putting things right, once and for all.

presentations

- **Ren, C.**, Mathias, B., Chow, J. C.-C, Lyu, Y., Trends in Non-Profit Sectors: A Predictive Analysis of Agency Longevity in the US. Presentation at *Society for Social Work and Research*. Washington DC (January 2020)
- Mathias, B., **Ren, C.**, Chow, J. C.-C, Community Engagement As a Predictor of Social Capital: An Analysis from the Knight Soul of the Community Study. ePost at *Society for Social Work and Research*. Washington DC (January 2020)
- Stuart, M., **Ren, C.**, **Launching a Computational Social Welfare Lab: Reflecting on the Benefits and Obstacles Identified in the Grand Challenge.** Presentation at *Society for Social Work and Research*. San Francisco, CA (January 2019)
- Stone, S., Wu, Q., Stuart, M., **Ren, C.**, An Examination of School Influences on the Academic Achievement of Left behind Children in China. Presentation at *Society for Social Work and Research*. San Francisco, CA (January 2019)
- Scharlach, A., Bai, X., Stuart, M., **Ren, C.**, Zhang, Y., Effects of Personal, Social, and Environmental Characteristics on Negative Health Outcomes Among Older Adults in China. Presentation at *Society for Social Work and Research*. San Francisco, CA (January 2019)
- Stuart, M., Geiger, S., **Ren, C.** **A guided ethnographic reflection on a large-scale U.S.-China data science collaboration.** presentation at *Moore Sloan Data Science Annual Summit*. Salt Lake City, Utah (November 2018)
- Chow, J., **Ren, C.**, Mathias, B., InterBoxes: A Social Innovation in Education in Rural China. Presentation at *International Conference on Social Innovation in Child and Youth Services*. Beijing, China (October 2018)
- Stuart, M., **Ren, C.**, Launching a Computational Social Welfare Lab. Presentation at *Big Data Expo*. Guiyang, China (May 2018)

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skills

- Programming skills in **Python, R**, and proficient with Microsoft Office.
- Familiar with **Machine Learning** (Cluster Analysis, Decision Tree), **Deep Learning** (Neural Network (Kears, Tensorflow)) and **Natural Language Processing** (Word2Vec, RNN)
- Experience in **HTML, SPSS, C++, STATA and ArcGIS**.
- Native in Mandarin and fluent in English.
- Enjoy photography and familiar with **Finalcut, Photoshop and Lightroom**