

# Lingling Peng

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## EDUCATION

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**University of Michigan, Gerald R. Ford School of Public Policy**

Ann Arbor, MI | U.S.

**Master of Public Policy**

August 2018-May 2020

**Graduate Certificate in Data Science - Michigan Institute for Data Science**

*Major courses: Programming I, Intermediate Programming, Applied Econometrics, Program Evaluation, Statistics, Microeconomics*

- Tools: Proficient in Python, SQL, GitHub
- Web development and deployment: JavaScript, NodeJs, React, Heroku, AWS, Flask, Docker
- Contributed to open-source code bases: [schematic](#), [synapse python client](#), [sage-monorepo](#)

**Guangzhou University, School of Foreign Language**

Guangzhou, Guangdong | China

**Bachelor of Arts**

September 2013-August 2017

- Recipient of first-class scholarship and graduated with senior honors thesis

## PROFESSIONAL EXPERIENCE

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**Sage Bionetworks**

Seattle, WA | U.S.

*Associate Research software engineer / Associate bioinformatics engineer*

February 2022-present

- Enhanced core functionalities of [Schematic](#), an open-source Python package used for biomedical dataset annotation, metadata validation, and submission.
- Dockerized Flask APIs with Nginx, uWSGI and deployed the Flask APIs on AWS Fargate environment and monitored it through AWS CloudWatch.
- Implemented asynchronous function calls, resulting in a 50% performance improvement for API endpoints and established CI/CD pipelines using GitHub Actions to automate monitoring and ensure continuous improvement of API performance and overall robustness.
- Used D3, JavaScript to implement expandable and collapsible tangled tree that helped visualize complex various data models.

**ArborMetrix, Inc.**

Ann Arbor, MI | U.S.

*Product analyst*

November 2020-January 2022

- Used docker, d3, flask, and jinja to develop an internal platform for data scientists to write and visualize clinical measures.
- Added new features to internal Python libraries to and wrote clinical measures based on clients' requirements using SQL.
- Automated manual procedures, including using Python to automate Tableau workbooks and generating testing data for dashboard mockups.

**Youth Policy Lab, University of Michigan**

Ann Arbor, MI | U.S.

*Research assistant for Brian Jacob*

June 2020-October 2020

- Compiled, documented, created crosswalk, and wrote programs to generate regression tables using Stata and LaTeX.
- Cleaned household survey datasets, created alternative measure of material hardship, and performed descriptive analysis to look at association between various hardship variables.
- Cleaned, validated, and aggregated juvenile justice datasets from Michigan State Court Administrative Office.

**First Year Experience, University of Michigan**

Ann Arbor, MI | U.S.

*Graduate Research Assistant*

September 2019-November 2019

- Cleaned and compiled datasets from surveys that involved 5000 first year Michigan students using STATA to determine student learning before and after sexual harassment prevention training and healthy relationship training.
- Used STATA to visualize student learning datasets and used statistical models to evaluate if training provided by First Year Experience effectively improve students' understanding of sexual harassment and community engagement.

**The World Bank**

Washington DC | U.S.

*Impact Evaluation intern, Development Research Group*

June 2019-August 2019

- Reviewed over 300 articles published in the Journal of Development Economics and American Economic Journal within two weeks and summarized how articles transform savings and profits variables on Excel and LaTeX.
- Utilized STATA packages designed by the Development Impact Evaluation (DIME) team to clean datasets, set up high frequency checks, run simple randomization, and produce descriptive statistics.