

FIONA DING

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TECHNICAL SKILLS

COMPUTATIONAL: EXPERIENCED: Python, C/C++, SQL, Tableau, ROOT, MS Access
BASIC: Java, UNIX, MatLab, VBA, \LaTeX

WORK EXPERIENCE

2018–Present **Data Scientist**

2016–2018 **Reporting Analyst 1, 2**
Crossover Health

- Member of the Analytics team, which won the annual Big Wave award in 2016 for impact on the company
- Build and implement machine learning models to predict medical outcomes and improve operational procedures
- Build ETL processes with Python/SQL scripts to transform data from sources such as API calls, claims data, internal sources, etc. into a MySQL data warehouse
- Automated data pipeline using Luigi
- Build reports and dashboards in Tableau tailored for the intended user

2015–2016 **Associate Management Analyst**

County of Santa Clara - Social Services Agency

- Systems support for the Social Services Agency, working on various projects in the Data Analysis, Program Integrity and Research group
- Designed and created a complete database from scratch, used for tracking worker registrations and statuses
- Created back-end of the database, which involved data cleaning, database design, and writing SQL queries
- Implemented and tested front-end application using VBA, allowing user-friendly data-entry and querying

2009–2014 **Graduate Researcher/Teaching Assistant**

University of California, Davis

- Studied the properties of the quark-gluon plasma formed in high energy heavy-ion collisions at the STAR detector at RHIC (Relativistic Heavy Ion Collider)
- Analyzed large data sets ($\sim 10^8$ events), using ROOT and C++

EDUCATION

DEC. 2011 **University of California, Davis - Davis, CA**
M.S. in PHYSICS

MAY 2009 **Carnegie Mellon University - Pittsburgh, PA**
B.S. in PHYSICS, with Minor in MATHEMATICAL SCIENCES