

FIONA DING

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TECHNICAL SKILLS

COMPUTATIONAL: EXPERIENCED: Python, C/C++, ROOT, MS Access
BASIC: Java, UNIX, MatLab, VBA, \LaTeX
OTHER: numerical and statistical methods

WORK EXPERIENCE

2016–Present **Data Analyst**
Current *Crossover Health*

- Part of the Analytics team that won the Big Wave award in 2016 for impact on the company.
- Build and implement machine learning models to both predict medical outcomes and improve operational procedures.
- Build ETL processes with Python scripts to transform data from sources such as API calls, insurance flat files, internal sources, etc. into MySQL and Tableau.
- 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)
- Collaboration with international groups
- 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