KATHRYN IVERSON

Bioinformatics & Data Science

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github.com/kdiverson/



EXPERIENCE

Bioinformatics Analyst, DataOps

Second Genome

August 2017 - Present

♀ South San Francisco, CA

- Designed, tested, and developed data analysis pipelines at scale for drug discovery in python and bash
- Utilized AWS technologies to scale and improve metagenomics pipeline that handles 1TB of data daily
- Maintained and expanded proprietary R packages for building publication quality reports for clients and internal data analysis
- Designed and developed user interface for internal datawarehouse
- Managed two intern developers who assisted in pipeline application development

Bioinformatics Analyst, Solutions

Second Genome

April 2016 - August 2017

South San Francisco, CA

- Analyzed microbiome data for clients and wrote scientific reports
- Presented detailed scientific findings to clients and non-experts, highlighting actionable insights
- Presented company analysis capabilities to potential clients and assisted sales team by addressing technical questions from clients

Programmer Analyst

University of Michigan

June 2011 - April 2016

- Ann Arbor, MI
- Software developer for mothur, the most widely cited tool for characterizing microbial communities
- Established data analysis protocol for leading microbial ecology lab and trained colleagues using reproducible research methods
- Worked with internal and external collaborators analyzing microbial community data

PUBLICATIONS



The dynamics of a family's gut microbiota reveal variations on a theme

PD Schloss, KD Iverson, JF Petrosino, SJ Schloss. Microbiome, 2014 microbiomejournal.biomedcentral.com/articles/10.1186/2049-2618-2-25



The Gut Microbiome Modulates Colon Tumorigenesis

JP Zackular, NT Baxter, KD Iverson, WD Sadler, JF Petrosino, GY Chen, PD Schloss. mBio, 2013

mbio.asm.org/content/4/6/e00692-13.short



Stabilization of the murine gut microbiome following weaning PD Schloss, AM Schubert, JP Zackular, KD Iverson, JF Petrosino. Gut Microbes, 2012 tandfonline.com/doi/abs/10.4161/gmic.21008

HOW I WORK



Collaborator

Worked with several academic collaborators and industry clients to provide expert microbiome analysis for publication and IP development



Mentor

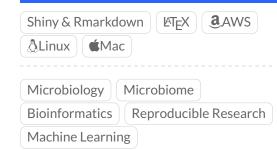
Managed interns in 2012 and 2013 with Google Summer of Code to add Random Forest and support vector machine (SVM) commands to mothur in C++



Leader

Initiated and organized company hackaton to spark new project ideas and encourage cross-team collaboration

TOOLS & EXPERTISE



LANGUAGES

Python R Bash C/C++ **SQL** Java



EDUCATION

M.S. in Bioinformatics

University of Michigan, Ann Arbor

2009-2011

B.A. in Biology

Earlham College

2004-2008

"Relentlessly curious, without fear or prejudice."