KATHRYN IVERSON

Bioinformatics & Pipeline Engineering

y kdiverson in linkedin.com/in/kathryniverson

% kathryniverson.com

EXPERIENCE

Bioinformatics Analyst, DataOps

Second Genome

🛗 August 2017 – Present

South San Francisco, CA

- Designed, developed, and deployed data analysis pipelines at scale on AWS 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



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github.com/kdiverson/

Domain expert

7 years of microbiome experience, working closely with bench scientists on cutting edge research

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

TOOLS & EXPERTISE

a AWS Docker git ALinux
Mac Shiny & Rmarkdown
Microbiome Bioinformatics
Metagenomics Microbiology
Statistics Reproducible Research

LANGUAGES

Python	
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Bash	
C/C++	
SQL	
Java	

EDUCATION

M.S. in Bioinformatics University of Michigan, Ann Arbor 2009-2011

B.A. in Biology

"Relentlessly curious, without fear or prejudice."



