

Keenan Graham

<http://keenangraham.github.io>

3165 Porter Drive
Palo Alto, CA 94304
(828) 280-5083
ksgraham@stanford.edu

EXPERIENCE

**Department of Genetics, Stanford University School of Medicine —
Laboratory Director: Mike Cherry, Ph.D.**

May 2017 - Present

- **Develop software** (backend, frontend, pipelines, external scripts) and wrangle data at the **ENCODE Data Coordination Center**.

**Department of Microbiology and Parasitology, Genova Diagnostics —
Laboratory Director: James Kelton, Ph.D.**

2013 - April 2017

- Visualize and perform **complex analysis on clinical data with Python** and Jupyter notebook.
- Examine more than 20,000 patient samples for **intestinal protozoa and parasitic helminths/ova**.

**Department of Clinical Genetics, Fullerton Genetics Center,
Mission Hospital — Laboratory Director: Jack Tarleton, Ph.D., FACMG**

2013 (Volunteer Project)

- Identify novel mutations in the *CLCN1* gene leading to myotonia congenita and **correct inconsistencies between lookup table of point mutations and raw DNA exon sequences of the gene**.

**Department of Epidemiology, UNC Chapel Hill Gillings School of
Global Public Health — Principal Investigator: Carla Cerami Hand,
M.D./Ph.D.**

2010 - 2011

- Determine parasitemia in blood samples infected with the malaria parasite *Plasmodium falciparum* and isolate the non-erythropoietic, tissue-protective erythropoietin heteroreceptor.
- **Senior research thesis based on experiments performed in this laboratory.**

EDUCATION

**University of North Carolina at Chapel Hill, Chapel Hill, NC —
Bachelor of Science in Biology**

2011

TECHNICAL SKILLS

Data analysis and software development in **Python** and JavaScript

Custom dashboards with **D3.js**, HTML, CSS, Jupyter Notebooks, and Markdown

Database creation and **querying in SQL**

Web applications with Flask/Django, React

Git, Bash, and AWS

LABORATORY SKILLS

Diagnostic parasitology and microscopy

Bacterial culture and antibiotic sensitivity assays

MALDI-TOF mass spectrometry

Western blot

PCR and DNA sequencing

INTERESTS

Bioinformatics

Hierarchical **Bayesian analysis** and statistical modelling

Interactive data visualization

Machine/deep learning