

# MICHAEL HOFFERT

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235 Powder House Boulevard ◊ Somerville, Massachusetts 02144

Finch Therapeutics ◊ Somerville, MA

## EDUCATION

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**Carleton College**  
B.A. in Biology, GPA 3.62

June 2018

### Relevant Coursework

- *Biology*: Bioinformatics & Genomics, Evolution, Grassland Ecology, Genetics, Biochemistry, Microbiology
- *Computer Science*: Computational Biology, Algorithms, Math and Data Structures, Human-Computer Interaction

### Honors

- *Distinction in Senior Integrative Exercises*: Biology capstone paper and presentation demonstrated exceptional understanding of selected topics, synthesis of novel scientific ideas, and verbal / written communication
- *Exemplary Writing Portfolio*: Writing skills rated in top 10% of Carleton students

## WORK EXPERIENCE

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**Finch Therapeutics**  
*Bioinformatics Research Associate*

June 2018 - present  
Somerville, MA

- Process and analyze high-throughput data from whole-genome, metagenomic, and amplicon DNA sequencing
- Communicate analysis results to a multi-disciplinary team to inform rationally designed microbial therapeutics
- Maintain and benchmark data processing pipelines in AWS and Google Cloud HPC environments

**Carleton College Academic Support Center**  
*Student Prefect*

March 2017 - June 2018  
Northfield, MN

- Facilitated and oversaw student review of course topics in biochemistry, ecology, and cell biology
- Collaborated with faculty to provide review sessions and materials emphasizing student cooperation and engagement

**Carleton College Biology Stockroom**  
*Stockroom Assistant*

September 2014 - March 2017  
Northfield, MN

- Prepared biological reagents, media, and cultures for faculty teaching and research labs
- Sanitized, maintained, and organized lab equipment and tools

## RESEARCH EXPERIENCE

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**Anderson Lab**  
*Research Assistant*

June 2017 - June 2018  
Northfield, MN

- Examined genomically-resolved archaeal communities from the deep seafloor using bioinformatics tools
- Conducted self-directed analysis of evolutionary dynamics with metagenomic and metatranscriptomic datasets
- Presented findings on evolutionary effects of pangenomic variation at American Geophysical Union Fall Meeting in New Orleans, December 2017

**Oesper Lab**  
*Research Assistant*

June - September 2016  
Northfield, MN

- Developed web-based visualization scheme in Python and Cytoscape.js for reconstructed tumor phylogenies
- Compared efficiency and accuracy of phylogeny reconstruction algorithms and included data in web interface

## SKILLS

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**Bioinformatics & Genomics**  
**Pipelines & HPC**  
**Python & Data Analysis**  
**Lab Techniques**

HUMAnN2, QIIME2, vsearch, bowtie2, samtools, fastx-toolkit, bash  
AWS ParallelCluster, WDL / Cromwell, Google Pipelines API, Snakemake  
GitHub, Jupyter, extensive use of: pandas, seaborn, scikit, and BioPython  
Blotting, Electrophoresis, Immunoprecipitation, DNA/Protein extraction