# Kenneth Daily

Senior Data Engineer

I have over a decade of experience applying programming, data analysis, coordination, and education to challenges in biology and human health. I am a champion of collaboration and open, reproducible science. I have experience with programming (Python and R), workflows (CWL, Toil, Snakemake), data coordination, cloud environments (AWS), collaborative research, statistics and machine learning, project coordination and organization, and developer and end user education.

## Personal Info


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## Skills

Python

R

Data pipelines and management

Public speaking

Technical writing

Amazon Web Services

Developer relations

## Work History

**2019-02 - Current**

### Senior Data Engineer

*Sage Bionetworks, Seattle, WA*

- Coordinate efforts of multiple teams engaged in collaborative research projects for solution development in data coordination, processing, and analysis.
- Manage and implement systems and infrastructure for data processing pipelines.
- Wrote and maintained technical documentation for user-facing API clients in Python, R, and command line.
- Work with internal and external software engineers to resolve problems, improve operations and provide customer service.
- Provide consulting and education on the use of open science and open research platforms and practices.
- Coordinated with internal and external project management staff on development timelines and project scope.
- Lead and participate in focused working groups to identify and define new platform features related to data curation, processing, analysis, and visualization.
- Develop educational outreach and documentation materials for new users and developers.

**2014-10 - 2019-02**

### Senior Research Scientist

*Sage Bionetworks, Seattle, WA*

- Implemented statistical and genomic data processing pipelines from raw data to publication-ready figures using open and reproducible frameworks.
- Led effort to define data curation and metadata standards, including schemas and tools for data validation.
- Wrote technical documentation and research

publications describing large, openly available research datasets.
- Performed outreach and education of scientists in the practice of computational biology and open, reproducible research methods
- Worked with the software engineering team to identify and fix bugs and prioritize feature requests.
- Lead implementation, execution, and evaluation of crowd-sourced data analysis challenges.

**2011-08 - 2014-10**

### Postdoctoral Fellow

*National Cancer Institute, Bethesda, MD*

- Performed computational and experimental analyses of Merkel Cell Carcinoma, a rare form of skin cancer.
- Handled, analyzed, and integrated data from RNA-seq, targeted exome sequencing, transcription microarrays, and array CGH platforms to identify recurrent causal mutations and develop animal models.
- Performed data analysis and provided recommendations to support biological hypotheses.
- Collaborated with oncology and immunology researchers to advance research and gain deeper understanding of topics.
- Authored professional scientific papers for publishing in peer-reviewed journals.
- Improved data handling and reproducible research methodology in the lab and department.

## Education

**2006-08 - 2011-05**

### Ph.D.: Computer Science

*University of California, Irvine - Irvine, CA*

- Focus on computational biology.
- Coursework in machine learning and statistics.

**2004-08 - 2006-05**

### Master of Science: Bioinformatics

*Indiana University Bloomington - Bloomington, IN*

**2000-09 - 2004-05**

### Bachelor of Science: Informatics

*Indiana University Bloomington - Bloomington, IN*