

# Aru Singh

## Computational Biologist

Coordinator of computational capabilities to magnify microbial manipulations

## Experience

### Ginkgo Bioworks: 2017-2022

- Wetlab (2017-2018); hybrid (2018-2019); drylab (2019-2022)
- Helped synthesize, prioritize, and deliver scalable general-purpose computational solutions to requests from experimental biologists using common data modalities
- Maintained close working relationships from experts across various digital and physical fields allowing for faster iteration cycles and better collaboration
- Accumulated, documented, and propagated consensus best practices in the language of code, containers, and the cloud
- Ran a number of computational workshops (Python; Bash & NGS analysis; lecture & homework) aimed towards the complete neophyte; seeded multiple experimentalist → bioinformatician transitions
- Developed a series of Python packages and command-line clients to interact with assets in a heterogeneous collection of information management systems using familiar programmable interfaces

## Omics

Genomics 

Transcriptomics 

Proteomics 

Epigenomics 

## Domains



Bacteria



Eukaryota

## Computational



Python



Bash



Snakemake



Docker



CI/CD



AWS

## Education

University of Illinois at  
Urbana-Champaign: B.S.  
2012-2016

Major: Computational Physics  
Minor: Bioengineering, Math