







K/A Kevin Amses, Ph.D.

COMPUTATIONAL BIOLOGIST

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ABOUT ME

I pair a broad set of self-taught computational fluencies with a strong theoretical foundation in biology. I have successfully used these skills to study microbial evolution.

Specific skills and experience in:

- metagenomics
- single-cell genomics
- genome-scale phylogenetics
- genomic variation
- *de novo* genome assembly and annotation
- comparative genomics
- transcriptomics
- data visualization
- biological software development

FLUENCIES

Advanced

python

Advanced

R

Advanced

Unix shell

Intermediate

rust

Proficient

git and GitHub

EXPERIENCE

Postdoctoral Scholar

Oregon State University / Corvallis, OR / June 2021 – present

Lead researcher on government-funded project to study the evolution and distribution of bacterial endosymbionts of soil fungi in the Mortierellomycotina.

- Design and deploy bioinformatics tools and pipelines for analyzing NGS data.
- Manage shared computational resources for working group, including HPC.
- Conduct phylogenomic analyses, metagenomic filtering, *de novo* genome assembly and annotation, comparative genomics, etc. of host-endosymbiont pairs.
- Cultivate microbes for purification and sequencing of biological molecules.
- Provide mentorship in bioinformatic and molecular wet lab techniques.

EDUCATION

Ph.D. Ecology and Evolutionary Biology

"Single cell sequencing facilitates genome-enabled biology in uncultured fungi and resolves deep branches on the fungal tree of life."

University of Michigan

2015 – 2021

M.S. Ecology and Evolutionary Biology

University of Michigan

2015 – 2017

B.S. Botany, minor Organic Chemistry

Humboldt State University

2009 – 2015

SELECTED PUBLICATIONS

- Amses, K.R.**, R. Simmons, J.E. Longcore, S.J. Mondo, K. Seto, G. Jeronimo, A. Bonds, C.A. Quandt, W. Davis, Y. Chang, B.A. Federici, A. Kuo, K. LaButti, J. Pangilinan, W. Andreopoulos, A.J. Tritt, R. Riley, H. Hundley, J. Johnson, A. Lipzen, K. Barry, B.F. Lang, C.A. Cuomo, N.E. Buchler, I.V. Grigoriev, J.W. Spatafora, J.E. Stajich, T.Y. James. 2022. Phylogenomic analysis of zoospore taxa suggests diploid-dominant life cycles characterized the early evolution of Fungi. *Proc Natl Acad Sci USA*. 119(36):e2116841119. doi: 10.1073/pnas.2116841119.
- Amses, K.R.**, W.J. Davis and T.Y. James. 2020. SCGid: a consensus approach to contig filtering and genome prediction from single cell sequencing libraries of uncultured eukaryotes. *Bioinform*. 36(7): 1994–2000. doi: 10.1093/bioinformatics/btz866.
- Davis, W.J., **K.R. Amses**, G.L. Benny, D. Carter-House, Y. Chang, I. Grigoriev, M.E. Smith, J.W. Spatafora, J.E. Stajich, T.Y. James. 2019. Genome-scale phylogenetics reveals and monophyletic Zoopagales (Zoopagomycota, Fungi). *Mol Phylogenet Evol*. 133:152–163. doi: 10.1016/j.ympev.2019.01.006.