

András Asbóth

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SKILLS

Core

- **R, Python**
- **Nextflow** applied in cloud based environments (AWS Batch, GCP)
- AWS S3, ECR, Lambda, SES, Batch, RDS (PostgreSQL), and their GCP equivalents
- Familiar or experienced in most standard bioinformatics pipelines (especially **Phage/Bacterial annotation, assembly**)
- Intermediate knowledge of OpenAPI **Benchling SDK**
- **Gitlab CICD pipelines**

Intermediate

- **Terraform**
- **SQL Alchemy**

Language

- Fluent in english (regular usage on conferences and meetings, C1)

Soft

- Reproducibility: Experienced with Docker and Singularity, gitlab CICD
- Held university lectures, seminars, tutored students, presented research on conferences (talk/posters), hosted student competitions, interviewed trained interns and new recruits

WORK EXPERIENCE

16S rRNA analysis 2020- 2021

- I wrote my thesis about analyzing 16S rRNA data of IBD patients, under the supervision of Eszter Ari PhD
- Performed various statistical pipelines and learned to use most of general bioinformatics modules (EMBOSS BWA, phyloseq, edgeR, BioPython, vegan, JalView and various other alignment handling tools)

PhD Genetics- 2021-2023 BRC Szeged

- Building project specific workflows using mostly: R, bash Python and standard tools, Nextflow for pipelines.
- Pangenomic analysis of viral genomes
- Familiarized myself with setting up basic environments in AWS

Bioinformatics - 2020-2023 BRC Szeged

- Built phage tail databases to later use in experimental setups
- Familiarized myself with using bash in a server environment, managing multiple project dependencies and chaining outputs throughout pipelines.

Bioinformatics - 2022 - Jan - Phagos

EDUCATION

ELTE Radnóti Miklós High School

- extracurricular subjects on Biology and Chemistry

Eötvös Loránd University – Faculty of Science

Graduated July, 2019

BSc - Biology

- Awarded 5 (Excellent) final grade for my diploma

MSc - Eötvös Loránd University – Faculty of Science

- *MS – Molecular- Immune- and Microbiology*

PAPERS

1. Koncz, M. et al. Pathogen genomic surveillance as a scalable framework for precision phage therapy. (**Cell**, 2024)
doi:10.1101/2024.06.15.599013.

1. Bacsur, P. et al. Effects of bowel cleansing on the composition of the gut microbiota in inflammatory bowel disease patients and healthy controls. **Therapeutic Advances in Gastroenterology** vol. 16 175628482311742 (2023).



[AWS Developers Podcast](#)

HOBBIES

Bouldering, cycling, boardgames, video games, gardening, podcasts, tabletop RPGs, biking, and bad drawings