André Jørgensen

📍 Hvidovre, Denmark   ✉ andrerosenj@gmail.com   📞 41 29 93 43   in andré-jørgensen-6821b8271

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Profile

Recent DTU graduate (M.Sc. in Bioinformatics and Systems Biology) skilled in programming, data science, and computational biology.

Education

Technical University of Denmark (DTU)   *Sep 2022 to Jun 2024*
MSc in Bioinformatics and Systems Biology

- **Thesis**: *Optimizing Mitochondrial Genome Alignment using Advanced Pangenomic Techniques*
- **Relevant Courses**: Deep Learning, High-Performance Computing in Life Sciences, Computational Tools for Data Science, Applied Methods in Metagenomics, Good Manufacturing Practices in Pharmaceutical, Biotech and Food Industry

Technical University of Denmark (DTU)   *Sep 2018 to Jun 2022*
BSc in Biotechnology

- **Bachelor Project**: *A Pipeline for Fast and Efficient Annotation of Transcript Isoforms*
- **Key Courses**: Algorithms and Data Structures, Probability Theory, Molecular Biology, Introduction to Machine Learning and Data Mining

Skills

- **Programming**: Python, R, SQL, Bash, TensorFlow, PyTorch, scikit-learn
- **Other Skills**: Version control with Git, unit testing, statistical analysis, data visualization, handling large datasets
- **Languages**: Danish (Native), English (Fluent)

Interests

- **Professional**: Data Science, Machine Learning, Computational Biology, Experimental Design
- **Personal**: Board games, Music, Logic puzzles
- **Volunteering**: Board Member of DTU Board Game Club (2022-2024), Volunteer at Roskilde Festival (2016, 2021, 2022), Treasurer of DSU Hvidovre-Brøndby (2019-2020)

Course Projects

- Built a set of Language Models for Long Form Question Answering trained on different subreddits.
- Scraped DBA.dk with Beautiful Soup, then built a price-prediction model in Python based on product descriptions.
- Used Metagenomic methods to analyze large metagenomes of pig fecal samples.
- Applied advanced substitution models to reconstruct the phylogenetic trees of SARS-CoV-2.
- Performed compositional analysis of Spotify play data in Python to find international music preference trends.
- Investigated various melanoma cell line treatments in both human and mouse using R and the Tidyverse.

Volunteering

- Roskilde Festival: Various years (mostly at Tuborg beer stands).
- Bastard Café: Board game 'guru'—helping guests select and learn new board games.
- Youth Instructor at Tårnby Teater: Taught acting and led drama exercises for kids.
- Phoner for Socialdemokratiet.

- Treasurer at DSU Hvidovre-Brøndby.
- Member of the PfD board.
- Participated in an extracurricular HPC-club at KU.

Personal Projects

- Installed Arch Linux on my PC in high school, which I used for a while (until collaboration issues at university).
- Created a simple Speech-to-Text script using GCP and Python, mostly for transcription experiments and accuracy testing.
- Installed custom firmware (LineageOS) on an E-Ink phone to improve functionality.
- Early user of GPT-3 on OpenAI's playground before ChatGPT was released.
- Confident troubleshooting skills—adept at scouring forums and GitHub issues to find solutions.