JONATHAN HAAB

Insightful bioinformatics graduate with experience in software development looking for an exciting role bridging biotechnology and computer science

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⚑ Swiss and Belgian
🌐 https://johaab.github.io/

EDUCATION

MSc in Computational Biology and Bioinformatics
ETH Zürich
📅 September 2019 - March 2022

BSc in Life Sciences Engineering
EPF Lausanne
📅 September 2016 – July 2019

High-School Diploma
Gymnase de Nyon
📅 August 2012 – June 2015

Maths & Physics Track

PUBLICATION

- Haab, Jonathan, Nicolas Deutschmann, and Maria Rodríguez Martínez (2022). *Is Attention Interpretation? A Quantitative Assessment On Sets.* DOI: 10.48550/ARXIV.2207.13018.

LANGUAGES

French   ● ● ● ● ●

English   ● ● ● ● ○

German   ● ● ○ ○ ○

REFEREES

Contact details available upon request

Nicolas Deutschmann, PhD
Research Scientist   IBM Research
Supervisor Master thesis and internship

Anthony Sonrel, PhD
Postdoctoral Researcher   Robinson Lab UZH
Supervisor research project

HOBBIES

Cycling & Fixing bikes   Movies   Concerts
Cooking   Running   Hiking   Reading

EXPERIENCE

Developer
OWT - Swisscom Digital Technology SA
📅 January 2023 - Now

Swisscom Set up enterprise service bus to streamline communication within an air-gapped data center. Defined and estimated tasks for upcoming sprints during program increment (PI) planning. Presented the team's achievements at the end of each PI.

OpenShift, Docker, Ansible, Kafka, NiFi

TelDaS Implemented RESTful API endpoints to replace SSH file transfers. Created, updated and decommissioned stored procedures. Resolved bugs in both back-end and front-end found since last release.

Java (SpringBoot), TypeScript (Angular), PL/SQL

Certificates Azure fundamentals, Red Hat System Administration I

Research Scientist Intern
IBM Research Zurich
📅 April - October 2022

This internship was a continuation of the project I started during my Master thesis.

- Implemented Deep Learning models trained them on IBM's private cluster
- Designed diverse experiments assessing the interpretability of transformers
- Wrote a scientific paper and slides to support my oral presentations

Python (Pytorch, Lightning, NumPy, scikit-learn, MLFlow, Pandas, Matplotlib, Seaborn), Bash, LaTeX

Committee President
VSETH — VIS
📅 February 2021 - March 2022

- Managed a dozen people, moderated board meetings, kept track of budget
- Gathered experience from graduates, informed prospective students, administered Slack workspace and Confluence wiki
- Organized social and career oriented events
- Represented students at department meetings, stayed attentive of students well-being, offered support

Master student project
UZH — Robinson Lab
📅 May - July 2021

Evaluation of computational pipelines for multimodal single-cell data

- Built a pipeline evaluating the performance of combinations of normalization and clustering methods on CITE and REAP-seq data
- Developed a custom scoring function
- Wrote a scientific report and presented my work orally

R, ggplot, LaTeX