

Silas Kieser

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"It always seems impossible until it's done." Nelson Mandela

Experience

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| Data Engineer HUG Memory Clinic, Geneva | Jan 2024 – July 2024 |
| <ul style="list-style-type: none">○ Automated clinical data processing workflows (R, Redcap) to support analyses.○ Applied TensorFlow-based machine learning models to improve classification tasks.○ Learned to discuss with clinicians to understand their needs for data analysis. | |
| Microbiome Data Specialist Nestlé Institute of Health Science, Lausanne | Sept 2022 – Aug 2023 |
| <ul style="list-style-type: none">○ Data analysis for clinical trials○ Gave 2 technical presentations at department level.○ My team commended me for my energy and solutions-driven approach | |
| Bioinformatician SurvivAI, University of Geneva | June 2022 – Aug 2022 |
| Analyzing single-cell data using deep-learning model (Torch) algorithms in a start-up setting. | |
| PostDoc Lab of Prof. Trajkovski, University of Geneva | Sept 2021 – Jul 2022 |
| <ul style="list-style-type: none">○ Creating a Python package for statistical visualizations○ Hired, trained, and coached a PhD student. | |
| I-teams Startup-Competition Translational Accelerator, University of Geneva | Sept 2018 – Jan 2019 |
| Public award winner for our project to bring an invention from bench to bedside | |
| Microbiome Data Analyst Nestlé Research, Vers-chez-les-Blanc | Feb 2016 – Feb 2017 |
| Pioneering metagenomics at Nestlé Research. Realized 2 first-author publications. | |

Education

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| PhD Faculty of Medicine, University of Geneva | May 2017 – Aug 2021 |
| Supervisor: Prof. Mirko Trajkovski | |
| <ul style="list-style-type: none">○ Led an international collaboration to develop a computational pipeline○ Large-scale analysis and functional modeling of microbiomes | |
| Graduate courses: Agile project management Cloud computing Presentation skills | |
| Master in Bioengineering EPFL, Lausanne Grade: 5.43/6 | Sept 2014 – Jan 2017 |
| Minor in Biocomputing | |
| Bachelor in Life Sciences EPFL, Lausanne Grade: 5.12/6 | Sept 2011 – Aug 2014 |

Skills

Programming Languages.....

Python: 10y experience, daily usage **R:** 2.5y experience, daily usage
Snakemake-workflow language: expert, 5y experience, frequent usage
Docker: regular usage
Git: 6y experience, daily usage **bash:** daily usage

Languages.....

English: Fluent **German:** Mother tongue
French: Fluent

Selected Talks & Teaching

Invited Speaker European Space Agency, Noordwijk, the Netherlands	October 2023
Selected workshop ISMB/ECCB 2023 conference, Remote	Jun 2023
Speaker Comp Bio Meeting, Lausanne	June 2023
Invited speaker Swedish University of Agricultural Science, Uppsala	Dec 2022
3-day online workshop Finnish Centre for Scientific Computing, Remote	Sep 2021
3-day online workshop Finnish Centre for Scientific Computing, Remote	Sep 2021
Full-day workshop Swiss Institute of Bioinformatics, Remote	Dec 2020 + Dec 2021
I proposed, organized, and taught the online class. The mixed audience of PhD students, professors, and industry researchers gave thoroughly positive feedback.	