

# SONJA KATZ

Biomedical Data Scientist

☎ +41 77 405 98 57

✉ sonja.katz@hotmail.com

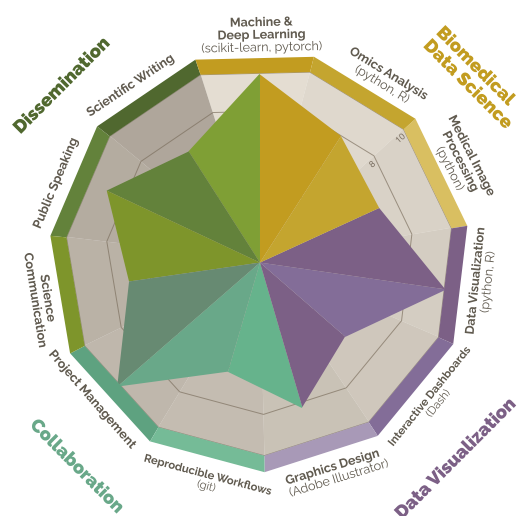
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🌐 Website

**Computational biologist** with expertise in **machine learning and AI-driven precision medicine**, specializing in transforming complex **biomedical data** into meaningful clinical insights. Proven track record of developing **innovative research tools** that bridge computational methods and medical research, with a focus on **creating practical solutions for healthcare challenges**.

## AREAS OF EXPERTISE

- Machine Learning & AI in Precision Medicine
- Multi-Omics Data Analysis
- Visual Data Storytelling
- Interdisciplinary Collaboration
- Scientific Communication



## KEY ACHIEVEMENTS

- Leading role in AI and data science efforts in **international infectious disease consortium** (PerAID), developing web-deployed CDSS tracking **7 critical health outcomes** across hospital journey.
- Currently assembling **Europe's largest** longitudinal **PET/CT sarcoidosis cohort**: ~360 patients, ~1.300 scans with integrated **clinical, molecular, and imaging datasets**.
- Drove research translation by coordinating cross-functional initiatives with **9 academic and clinical stakeholder groups** in the frame of a Horizon 2020 initiative.

## PROFESSIONAL EXPERIENCES

### Postdoctoral Researcher

University Hospital Zurich, Department of Immunology

2025 - now

#### Sarcoidosis Multi-Modal Research Initiative

- Leading creation of the largest multi-modal, longitudinal sarcoidosis cohort in Europe
- Developed an automated end-to-end organ segmentation pipeline for PET-CT scans
- Created advanced AI models for predictive disease progression and patient stratification

Adviser: Prof. Dr. Jakob Nilsson

## PROFESSIONAL EXPERIENCES (continued)

### PhD candidate (cum laude)

LifeGlimmer GmbH, Berlin, GER

in Computational Biology

2020 - 2024

**Thesis title:** "From bytes to bedside and back: Enhancing clinical decision support with explainable AI"

- Competitively selected for Marie Skłodowska-Curie Innovative Training Networks (HORIZON 2020)
- Realized 12 translational precision medicine projects across 9 international institutions within four years

Adviser: Prof. Dr V.A.P. Martin dos Santos; Wageningen University and Research, NL

## EDUCATION

### Master of Science

University Of Natural Resources And Life Sciences, Vienna, AT

in Biotechnology

2016 - 2019

- Performed wet lab studies using human colon carcinoma cell culture

### Bachelor of Science

University Of Natural Resources And Life Sciences, Vienna, AT

in Biotechnology

2013 - 2016

- Production, purification, and characterization of recombinant mutants

## ADDITIONAL SKILLS & PERSONAL ACHIEVEMENTS

### Languages

German, English, Italian (B1)

### Professional Volleyball Player

- Long-term captain of Austria's most decorated volleyball club
- Former Austrian Women's National Team athlete

### Long-Distance Hiking

- Completed the 3,000km "Te Araroa Trail" across New Zealand

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