

# Simon David Lindner

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## Education

### Medical University of Vienna, Complex Systems

- Dissertation: Data-driven approaches to healthcare analytics, multimorbidity networks, and wastewater-based epidemiology.

Vienna, Austria

Sept 2020 – Mar 2026

### University of Vienna, Physics

- Thesis: Thermodynamics of systems with emergent structures.

Vienna, Austria

Apr 2017 – Sept 2020

### University of Vienna, Physics

- Thesis: Methods for van der Waals Corrections in Ab Initio Molecular Dynamics.

Vienna, Austria

Oct 2012 – Apr 2017

### ETH Zürich, Undergraduate Studies

Zürich, Switzerland

Sept 2010 – June 2012

## Experience

### SUSTech-ETH Institute of Risk Analysis, Prediction & Management (Risks-X), Research Associate

- Analyzing longitudinal legal data to construct dynamic language networks, tracking semantic shifts and structural evolution over time.

Austria (Remote)

Jan 2026 – present

2 months

### Leto Space GmbH, Data Scientist

- Designed and evaluated machine-learning models for information extraction from unstructured data.

Vienna, Austria

Aug 2024 – Mar 2025

8 months

### Complexity Science Hub Vienna / Medical University of Vienna, Researcher (Complex Systems & Computational Health)

- Member, Austria's COVID-19 Forecasting Committee: developed wastewater-based and short-term epidemic forecasts that informed national public health decisions.
- Analyzed electronic health records to map multimorbidity networks, uncovering gender-specific associations and socioeconomic health disparities.
- Built privacy-preserving analytics for international collaborations using synthetic data generation and federated learning.

Vienna, Austria

Oct 2020 – Oct 2024

4 years 1 month

## Skills

### Python

### Data Engineering

### Tools

### Visualization

### Statistical Modeling

### Machine Learning

### Deep Learning

### NLP & LLMs

### Network Science

## **Languages**

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### **German**

Native speaker

### **English**

Fluent