Neil Scheidwasser

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Highly motivated and scientifically inclined researcher with a strong background in computational biology and data science. Proficient in data analysis, machine learning, and software development, with a proven ability to derive actionable insights from complex datasets.

Experience

Oct 2022 –	**Doctoral researcher,** University of Copenhagen, Development of efficient representations for genetic data AI tracking-based detection of infection in poultry Nationwide analysis of COVID-19 spread in Denmark
May 2025 – Jun 2025	**Visiting researcher,** Imperial College London. Exploring the potential of protein structure data for pandemic preparedness
Nov 2023 – Dec 2023	**Consultant,** The Capital Region of Denmark. Data-driven models of clinical deterioration in adult patients
Oct 2021 – Feb 2023	**Scientific advisor,** Logitech. Supervising interns on projects related to speech representation learning
Feb 2022 – Sep 2022	**Research assistant,** EPFL. Designing user interfaces for animal tracking in wet-lab neuroscience
Feb 2021 – Sep 2021	**Engineering intern,** Logitech. Benchmarking deep learning models for emotion and stress recognition

Education

Oct. 2022 –	**Ph.D., University of Copenhagen** in Health Data Science and AI
2019 – 2022	**M.Sc. , EPFL** in Life Sciences Engineering (Distinction)
2016 – 2019	**B.Sc. , EPFL** in Life Sciences Engineering

Skills

Software engineering	**Agile** development, **version control** (Git), **unit testing**, **CI/CD**
Programming	**Python** (Proficient), C++, Rust, R (Familiar)
Data science	**Deep learning** (PyTorch, Jax), **Data visualisation** (Plotly, Dash, lecturer), **DataOps** (DVC), **MLOps** (Weights & Biases, MLFlow, FastAPI)
Soft skills	**Project management**, **communication** (presentation at conferences, scientific writing), **leadership** (supervising research assistants, managing conference reviewers), **teaching** (Data visualisation and storytelling)

Other interests

A Byte of Health	Newsletter dissecting the latest breakthroughs in science and medicine
Volunteering	Treasurer at ESN Copenhagen (2023-2025). Co-founder of Data Analytics Group at EPFL (2020-2022), where I created science coding challenges
Hobbies	Running, climbing, Scrabble (Under-18 French World Champion in 2015), chess

Research Publications (selected)

Full list available on Google Scholar. *: Equal contribution

1. Artificial intelligence for modelling infectious disease epidemics
M. U. Kraemer, J. L.-H. Tsui, S. Y. Chang, S. Lytras, M. P. Khurana, S. Vanderslott, S. Bajaj, **N. Scheidwasser**, J. L. Curran-Sebastian, E. Semenova, *et al.*
Nature, 2025

2. High-resolution epidemiological landscape from ∼ 290,000 SARS-CoV-2 genomes from Denmark
M. P. Khurana*, J. Curran-Sebastian*, **N. Scheidwasser***, C. Morgenstern, M. Rasmussen, J. Fonager, M. Stegger, M.-H. E. Tang, J. L. Juul, L. A. Escobar-Herrera, *et al.*
Nature Communications, 2024

3. Deep learning from videography as a tool for measuring infection in poultry
N. Scheidwasser, L. Ladefoged Poulsen, M. P. Khurana, M. Iglesias-Carrasco, D. J. Laydon, C. A. Donnelly, A. M. Bojesen, S. Bhatt, and D. A. Duchêne
bioRXiv, 2024

4. Phylo2Vec: a vector representation for binary trees
N. Scheidwasser*, M. J. Penn*, M. P. Khurana, D. A. Duchêne, C. A. Donnelly, and S. Bhatt
Systematic Biology, 2024

5. SERAB: A multi-lingual benchmark for speech emotion recognition
N. Scheidwasser, M. Kegler, P. Beckmann, and M. Cernak
International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2022