

Alexander Johansen

STANFORD · USA

🏠 alrojo.github.io | 📧 alrojo | 🌐 alexrosejo | 🐦 [@alexrosejo](https://twitter.com/alexrosejo)

Education

Stanford University

PH.D. COMPUTER SCIENCE

StatML work and LLM applications to biomedical sensors

Stanford, California, USA

Sep 2020 - now

Technical University of Denmark

M.Sc. MATHEMATICAL MODELING AND COMPUTATION, GPA: 11.44/12.00

Exchange Nanyang, Singapore, thesis on neural machine translation

Kongens Lyngby, Denmark

Sep 2014 - Dec 2016

Copenhagen Business School

B.Sc. BUSINESS ADMINISTRATION AND INFORMATION SYSTEMS, GPA: 10.70/12.00

Exchange Lincoln, New Zealand

Frederiksberg, Denmark

Sep 2011 - Jun 2014

Experience

Technical University of Denmark

RESEARCH ASSISTANT

Supervised and conducted research with +30 students on machine learning methodology and language models for proteomics.

Kongens Lyngby, Denmark

Jan 2019 - Jan 2020

Salesforce

DEEP LEARNING RESEARCH, INTERN

Research on deep learning for natural language processing, supervised by Richard Socher, PhD.

Palo Alto, California, USA

Jan 2017 - Jan 2018

Selected publications

- | | | |
|------|---|--------------|
| 2025 | arXiv , <i>TD(0) Learning converges for Polynomial mixing and non-linear functions</i> . A. Sridhar and A. Johansen | Under Review |
| 2023 | ACM ITSG , <i>CliniDigest: a case study in large language model based large-scale summarization of clinical trial descriptions</i> . R. White, T. Peng, P. Sripitak, A. Johansen, Michael Snyder | Workshop |
| | Nature Biotechnology , <i>SignalP 6.0 achieves signal peptide prediction across all types using protein language models</i> . F. Teufel, J. Armenteros, A. Johansen, M. Gíslason, S. Pihl, K. Tsirigos, O. Winther, S. Brunak, G. Heijne, H. Nielsen | Journal |
| 2022 | Nucleic Acids Research , <i>DeepLoc 2.0: multi-label subcellular localization prediction using protein language models</i> . V. Thummuluri, J. Armenteros, A. Johansen, H. Nielsen, O. Winther | Journal |
| 2020 | ICLR , <i>Neural arithmetic units</i> . A. Madsen and A. Johansen | Spotlight |

Patents

- | | | |
|------|--|----------|
| 2022 | US Patent 11,354,565 , <i>Probability-Based Guider</i> . A. Johansen, B. McCann, J. Bradbury, R. Socher | Approved |
| 2022 | US Patent 11,250,311 , <i>Deep Neural Network-Based Decision Network</i> . A. Johansen, B. McCann, J. Bradbury, R. Socher | Approved |

Skills & Courses taken

Math Linear dynamical systems, convex optimization 1 & 2, measure theory, machine learning theory, stochastic processes, analysis

Computer Science Networking, verilog, operating systems, parallel programming, databases, algorithms 1 & 2.

Machine Learning Classic ML, deep learning, reinforcement learning, natural language processing, large language models

Student Management I have had the fortunate opportunity to supervise M.Sc., B.Sc., and High school students to high-impact publications.

Teachings Deep learning, natural language processing, reinforcement learning