Machine Learning Internship **Jan 2024 - present**
ExSeed Health *remote*
Field: Machine Learning & Computer Vision

- Mining features (segmentation and tracking) of human sperm cells and analysis of sperm quality.
- Using PyTorch, OpenCV, CVAT for model development and AWS (SageMaker, DynamoDB and S3) for model deployment.

Data Science Associate **Aug 2023 - Dec 2023**
Meddoc Flow ApS. *remote*
Field: Machine Learning & AI

- Developed back-end scripts in Python to get Medical Device Regualtion queries and find the answer using vector embeddings and similarity search in Milvus.

PhD student **Sep 2021 - writing phase**
Department of Clinical Medicine, Aarhus University *Aarhus, Denmark*
Field: Machine Learning & Hypertension
Status: All data collected and analyzed. I am finishing writing the thesis in my spare time.

- Developed new time-series analysis of contrast for laser speckle contrast imaging (LSCI) and improved the optical system.

Machine Learning internship **Jul 2019 - Sep 2019**
Telefónica Alpha, Health Moonshot *Barcelona, Spain*
Field: Machine Learning & Human Computer Interaction

- Performed data exploration and correlation analysis of behavioural data coming from phone sensors, electrodermal activity from empatica's wristband and self reported questionnaires from the phone.

Marie Curie Early Stage Researcher **Mar 2017 - Apr 2020**
Department of Computing Science, University of Glasgow *Glasgow, Scotland*
Field: Machine Learning & Human-Computer Interaction

- Developed novel algorithms in Python and Matlab to map electrodermal activity to vibrotactile cues using self-organizing maps, clustering, and psychophysics.

Biomedical Engineer **Mar 2015 - Apr 2017**
Max-Plank Institute for Metabolism Research *Cologne, Germany*
Field: MRI & fMRI analysis

- Applied segmentation algorithms to MRI images.
- Investigated sources of noise with ICA analysis, which resulted in the successful debugging and completion of the project.

Machine Learning Research Fellowship **Mar 2013 - Apr 2014**
Department of Mathematics, University of Barcelona *Barcelona, Spain*
Field: Machine Learning & Atherosclerosis

- Implemented new metrics and alignment algorithms based on the Haussdorf distance and the SIFT method for the alignment of Intravascular Ultrasound sequences.