

Completed Research Projects on Berzelius

- Project title: [Berzelius test project for NSC staff](#)
Project duration: 2021-02-03 – 2022-01-01
Principal Investigator: Johan Raber, Linköpings universitet
- Project title: [Berzelius Pilot Project](#)
Project duration: 2021-06-07 – 2021-10-01
Principal Investigator: Johan Raber, Linköpings universitet
- Project title: [Learning Domain Policies for Classical Planning](#)
Project duration: 2021-07-01 – 2022-01-01
Principal Investigator: Simon Ståhlberg, Linköpings universitet
- Project title: [VOT evaluation](#)
Project duration: 2021-07-01 – 2022-01-01
Principal Investigator: Michael Felsberg, Linköpings universitet
- Project title: [DeepVision: Deep Learning for Robot Vision](#)
Project duration: 2021-07-01 – 2022-01-01
Principal Investigator: Michael Felsberg, Linköpings universitet
- Project title: [Multi-view methods for 6D pose estimation using differential rendering](#)
Project duration: 2021-07-01 – 2022-01-01
Principal Investigator: Hampus Åström, Lunds universitet
- Project title: [Self-supervised Stage Visual Transformers](#)
Project duration: 2021-07-01 – 2021-10-01
Principal Investigator: Hao Hu, Kungliga Tekniska högskolan
- Project title: [Artificial intelligence use in COVID19 and cell death research](#)
Project duration: 2021-07-01 – 2022-01-01
Principal Investigator: Sonja Aits, Lunds universitet
- Project title: [Robust machine learning for multimodal multitask learning](#)
Project duration: 2021-07-01 – 2022-01-01
Principal Investigator: Xuan-Son Vu, Umeå universitet
- Project title: [Hidden neural networks for nanopore DNA sequencing](#)
Project duration: 2021-09-06 – 2022-04-01
Principal Investigator: Joakim Jaldén, Kungliga Tekniska högskolan
- Project title: [Predicting Protein Conformational Changes Using Machine Learning](#)
Project duration: 2021-08-18 – 2022-03-01
Principal Investigator: Lynn Kamerlin, Uppsala universitet
- Project title: [Edge-based Cognitive System](#)
Project duration: 2021-08-18 – 2022-03-01
Principal Investigator: Chanh Le Tan Nguyen, Umeå universitet

- Project title: [Deep integrative omic auto-encoder analysis](#)
Project duration: 2021-08-18 – 2021-12-01
Principal Investigator: Mika Gustafsson, Linköpings universitet
- Project title: [Simulation of ammonia and hydrogen combustion using transported PDF and artificial neural networks chemistry speedup method](#)
Project duration: 2021-09-01 – 2022-03-01
Principal Investigator: Shijie Xu, Lunds universitet
- Project title: [Deep learning models for modelling genetic variation](#)
Project duration: 2021-08-18 – 2022-03-01
Principal Investigator: Carl Nettelblad, Uppsala universitet
- Project title: [iHorse – improving air quality and Health risk forecasts by data-driven modelling of traffic and atmospheric environment](#)
Project duration: 2021-08-24 – 2022-03-01
Principal Investigator: Xiaoliang Ma, Kungliga Tekniska högskolan
- Project title: [Bayesian Reinforcement Learning](#)
Project duration: 2021-08-24 – 2021-10-01
Principal Investigator: Divya Grover, Chalmers tekniska högskola
- Project title: [End-to-end learning for protein docking](#)
Project duration: 2021-08-25 – 2021-12-01
Principal Investigator: Arne Elofsson, Stockholms universitet
- Project title: [A pilot macromolecular 3D structure determination project - Year 9](#)
Project duration: 2021-09-01 – 2022-09-01
Principal Investigator: Martin Moche, Linköpings universitet
- Project title: [Large-scale Simulations in Complex Flows](#)
Project duration: 2021-09-01 – 2022-03-01
Principal Investigator: Luca Brandt, Kungliga Tekniska högskolan
- Project title: [Learning Training Set Similarities to Improve Uncertainty and Interpretability](#)
Project duration: 2021-09-01 – 2022-03-01
Principal Investigator: Erik Englesson, Kungliga Tekniska högskolan
- Project title: [Memorization in Deep Networks](#)
Project duration: 2021-09-01 – 2021-09-30
Principal Investigator: Mårten Björkman, Kungliga Tekniska högskolan
- Project title: [Identification of novel antibiotic resistance genes using Deep Neural Networks \(Mainly Graph Neural Networks\)](#)
Project duration: 2021-09-01 – 2022-03-01
Principal Investigator: Sofiane Ennadir, Kungliga Tekniska högskolan
- Project title: [Entropy regularized dynamics and birth-death dynamics for neural networks](#)
Project duration: 2021-09-01 – 2022-03-01
Principal Investigator: Viktor Nilsson, Kungliga Tekniska högskolan

- Project title: [A deep neural network potential for carbon](#)
Project duration: 2021-09-01 – 2021-12-01
Principal Investigator: Gustav Johansson, Luleå tekniska universitet
- Project title: [HASTE: Hierarchical Analysis of Spatial and Temporal Data](#)
Project duration: 2021-09-01 – 2022-03-01
Principal Investigator: Ankit Gupta, Uppsala universitet
- Project title: [Berzelius Access for NSC Guests](#)
Project duration: 2021-09-07 – 2023-05-23
Principal Investigator: Johan Raber, Linköpings universitet
- Project title: [Multiscale molecular modeling with machine learning](#)
Project duration: 2021-09-10 – 2022-04-01
Principal Investigator: Alexander Lyubartsev, Stockholms universitet
- Project title: [3DeepLearning](#)
Project duration: 2021-09-17 – 2022-04-01
Principal Investigator: Per Uhlén, Karolinska Institutet
- Project title: [Deep learning for prostate cancer](#)
Project duration: 2021-09-17 – 2022-04-01
Principal Investigator: Eduard Chelebian Kocharyan, Uppsala universitet
- Project title: [A transformer for prediction of MS2 spectrum intensities](#)
Project duration: 2021-09-17 – 2021-12-01
Principal Investigator: Lukas Käll, Kungliga Tekniska högskolan
- Project title: [Cross-dataset generalization for video: are recurrent models less texture biased?](#)
Project duration: 2021-09-23 – 2022-04-01
Principal Investigator: Sofia Broomé, Kungliga Tekniska högskolan
- Project title: [Megatron GPT Bootcamp](#)
Project duration: 2021-10-01 – 2021-11-01
Principal Investigator: Johan Raber, Linköpings universitet
- Project title: [Language Models for Information Extraction](#)
Project duration: 2021-09-24 – 2022-04-01
Principal Investigator: Ali Basirat, Linköpings universitet
- Project title: [Uncertainty-aware temporal change detection for satellite imagery](#)
Project duration: 2021-09-28 – 2022-04-01
Principal Investigator: Heng Fang, Kungliga Tekniska högskolan
- Project title: [Bayesian Reinforcement Learning](#)
Project duration: 2021-10-01 – 2022-04-01
Principal Investigator: Divya Grover, Chalmers tekniska högskola
- Project title: [Memorization in Deep Networks](#)
Project duration: 2021-09-30 – 2022-04-01
Principal Investigator: Mårten Björkman, Kungliga Tekniska högskolan

- Project title: [Noise generation by turbulent boundary over an airfoil](#)
Project duration: 2021-10-04 – 2022-05-01
Principal Investigator: Ardeshir Hanifi, Kungliga Tekniska högskolan
- Project title: [General PhD research project for WASP funded student](#)
Project duration: 2021-10-04 – 2022-05-01
Principal Investigator: Daniel Gedon, Uppsala universitet
- Project title: [Protein peptide docking with AlphaFold](#)
Project duration: 2021-10-04 – 2022-05-01
Principal Investigator: Björn Wallner, Linköpings universitet
- Project title: [Self-supervised Stage Visual Transformers](#)
Project duration: 2021-10-08 – 2022-02-01
Principal Investigator: Hao Hu, Kungliga Tekniska högskolan
- Project title: [Investigating evolution of metabolic plasticity of earlier eukaryotic organisms.](#)
Project duration: 2021-10-22 – 2022-05-01
Principal Investigator: Aleksej Zelezniak, Chalmers tekniska högskola
- Project title: [Evaluating the use of contrastive learning for Domain Generalization](#)
Project duration: 2021-10-22 – 2022-02-01
Principal Investigator: Johan Fredin Haslum, Kungliga Tekniska högskolan
- Project title: [DL4NLP: Deep Learning for Natural Language Processing](#)
Project duration: 2021-10-27 – 2022-05-01
Principal Investigator: Marco Kuhlmann, Linköpings universitet
- Project title: [Self-supervised and Spatio-Temporal Methods in Deep Learning](#)
Project duration: 2021-10-25 – 2022-05-01
Principal Investigator: Karl Åström, Lunds universitet
- Project title: [Self-supervised learning for histopathology applications](#)
Project duration: 2021-10-22 – 2022-05-01
Principal Investigator: Karin Stacke, Linköpings universitet
- Project title: [WASP PhD - ML for anomaly detection](#)
Project duration: 2021-10-30 – 2022-03-01
Principal Investigator: Adha Hrusto, Lunds universitet
- Project title: [Deep Learning Under Uncertainty](#)
Project duration: 2021-10-30 – 2022-03-05
Principal Investigator: Hossein Azizpour, Kungliga Tekniska högskolan
- Project title: [Self-supervised Transformer-based Representation Learning for Autonomous Vehicle Vision](#)
Project duration: 2021-11-02 – 2022-06-01
Principal Investigator: Hariprasath Govindarajan, Linköpings universitet
- Project title: [End-to-end learning for protein docking](#)
Project duration: 2021-12-01 – 2022-06-01

Principal Investigator: Arne Elofsson, Stockholms universitet

- Project title: [SSL_Erik](#)
Project duration: 2021-11-11 – 2022-06-01
Principal Investigator: Lars Hammarstrand, Chalmers tekniska högskola
- Project title: [NVIDIA/ENCCS hackathon](#)
Project duration: 2021-11-29 – 2022-01-01
Principal Investigator: Lilit Axner, Uppsala universitet
- Project title: [Deep learning for multi-object tracking](#)
Project duration: 2021-11-11 – 2022-06-01
Principal Investigator: Georg Hess, Chalmers tekniska högskola
- Project title: [Semi-supervised Learning for Medical Image Analysis](#)
Project duration: 2021-11-11 – 2022-06-01
Principal Investigator: David Hagerman Olzon, Chalmers tekniska högskola
- Project title: [Creating grounded and disentangled representation of robot skills](#)
Project duration: 2021-11-17 – 2022-12-01
Principal Investigator: Alexander Dürr, Lunds universitet
- Project title: [SciLifeLab BioImage Informatics Facility computing](#)
Project duration: 2021-11-17 – 2022-06-01
Principal Investigator: Christophe Avenel, Uppsala universitet
- Project title: [High throughout prediction of toxin-antitoxin protein interfaces with AlphaFold2](#)
Project duration: 2021-11-17 – 2022-06-01
Principal Investigator: Gemma Atkinson, Lunds universitet
- Project title: [Protein structure prediction and AI in virtual screening](#)
Project duration: 2021-11-19 – 2022-06-01
Principal Investigator: Jens Carlsson, Uppsala universitet
- Project title: [Adversarial Flows](#)
Project duration: 2021-12-02 – 2022-06-01
Principal Investigator: Emir Konuk, Kungliga Tekniska högskolan
- Project title: [Multi-Objective Reinforcement Learning for Agent-Based Simulation](#)
Project duration: 2021-12-01 – 2022-06-01
Principal Investigator: Johan Källström, Linköpings universitet
- Project title: [Deep Learning Uncertainty using Self-Supervised Learning](#)
Project duration: 2021-12-01 – 2022-06-01
Principal Investigator: Per Sidén, Linköpings universitet
- Project title: [A deep neural network potential for carbon](#)
Project duration: 2021-12-01 – 2022-03-01
Principal Investigator: Gustav Johansson, Luleå tekniska universitet

- Project title: [Stacked Protein Prediction](#)
Project duration: 2021-11-24 – 2022-06-01
Principal Investigator: Ross King, Chalmers tekniska högskola
- Project title: [Deep integrative omic auto-encoder analysis](#)
Project duration: 2021-12-01 – 2022-06-01
Principal Investigator: Mika Gustafsson, Linköpings universitet
- Project title: [Large-Scale Spatio-Temporal Reasoning and Learning](#)
Project duration: 2021-12-02 – 2022-07-01
Principal Investigator: Fredrik Heintz, Linköpings universitet
- Project title: [Photoreactivity or photostability? Disentangling factors governing the fate of excited states.](#)
Project duration: 2022-01-01 – 2022-04-01
Principal Investigator: Nanna Holmgaard List, Kungliga Tekniska högskolan
- Project title: [Deep Learning for Autonomous Vehicle Vision LundLinköping](#)
Project duration: 2021-12-09 – 2022-07-01
Principal Investigator: Joakim Johnander, Linköpings universitet
- Project title: [Diffusion Based Representation Learning](#)
Project duration: 2021-12-09 – 2022-04-04
Principal Investigator: Stefan Bauer, Kungliga Tekniska högskolan
- Project title: [3D GANs for creating synthetic medical volumes](#)
Project duration: 2021-12-14 – 2022-03-15
Principal Investigator: Anders Eklund, Linköpings universitet
- Project title: [PReSTO Cryo-EM Berzelius workshop](#)
Project duration: 2021-12-15 – 2022-07-01
Principal Investigator: Torben Rasmussen, Linköpings universitet
- Project title: [DEEPMECH: Deep-learning methods to tackle outstanding problems in engineering mechanics](#)
Project duration: 2021-12-16 – 2022-07-01
Principal Investigator: Ricardo Vinuesa, Kungliga Tekniska högskolan
- Project title: [Semi-supervised multi-task deep learning](#)
Project duration: 2022-02-01 – 2022-08-01
Principal Investigator: Miquel Marti, Kungliga Tekniska högskolan
- Project title: [Robust Computer Vision](#)
Project duration: 2021-12-20 – 2022-07-01
Principal Investigator: Simon Kristoffersson Lind, Lunds universitet
- Project title: [Storage for PReSTO pilot SNIC 2021/5-376](#)
Project duration: 2022-01-01 – 2023-01-01
Principal Investigator: Martin Moche, Karolinska Institutet

- Project title: [DeepVision: Deep Learning for Robot Vision](#)
 Project duration: 2022-01-01 – 2022-07-01
 Principal Investigator: Michael Felsberg, Linköpings universitet
- Project title: [Semi-supervised Learning for Medical Image Analysis](#)
 Project duration: 2021-12-30 – 2022-07-01
 Principal Investigator: Roman Naeem, Chalmers tekniska högskola
- Project title: [Using A Photo to Build 3D Shape Reconstruction of The Cloud Images with Deep Learning](#)
 Project duration: 2021-12-30 – 2022-07-01
 Principal Investigator: Lida Huang, Stockholms universitet
- Project title: [Robust machine learning for multimodal multitask learning](#)
 Project duration: 2022-01-01 – 2022-07-01
 Principal Investigator: Xuan-Son Vu, Umeå universitet
- Project title: [Observatory of Poverty v2](#)
 Project duration: 2022-01-13 – 2022-03-01
 Principal Investigator: Adel Daoud, Linköpings universitet
- Project title: [Machine learning for accelerated materials design](#)
 Project duration: 2022-01-14 – 2022-08-01
 Principal Investigator: Igor Abrikosov, Linköpings universitet
- Project title: [A transformer for prediction of MS2 spectrum intensities](#)
 Project duration: 2022-01-20 – 2022-08-01
 Principal Investigator: Lukas Käll, Kungliga Tekniska högskolan
- Project title: [Evaluating the use of contrastive learning for Domain Generalization](#)
 Project duration: 2022-02-01 – 2022-08-01
 Principal Investigator: Johan Fredin Haslum, Kungliga Tekniska högskolan
- Project title: [WASP project - Deployment and automated tuning of ML functions in distributed RAN environments](#)
 Project duration: 2022-01-20 – 2022-08-01
 Principal Investigator: Martin Isaksson, Kungliga Tekniska högskolan
- Project title: [Geometric Deep Learning for Computer Vision](#)
 Project duration: 2022-01-25 – 2022-08-01
 Principal Investigator: Georg Bökman, Chalmers tekniska högskola
- Project title: [Segmentation of pelvic tissues via a neural network](#)
 Project duration: 2022-01-25 – 2022-08-01
 Principal Investigator: Alexandr Malusek, Linköpings universitet
- Project title: [A Generic Active Learning Framework for Deep Models](#)
 Project duration: 2022-01-25 – 2022-08-01
 Principal Investigator: Linus Aronsson, Chalmers tekniska högskola

- Project title: [Artificial Intelligence for Prostate Cancer Diagnosis and Prognostication](#)
Project duration: 2022-02-01 – 2022-06-01
Principal Investigator: Martin Eklund, Karolinska Institutet
- Project title: [DNNs for filtering batch videos on the edge](#)
Project duration: 2022-02-15 – 2022-09-01
Principal Investigator: Ahmed Ali-Eldin Hassan, Chalmers tekniska högskola
- Project title: [Intrinsically motivated RL agent for robotic manipulation tasks](#)
Project duration: 2022-01-31 – 2022-08-01
Principal Investigator: Wenhao Lu, Chalmers tekniska högskola
- Project title: [Accurate and Efficient Visual Relocalization](#)
Project duration: 2022-02-01 – 2022-08-01
Principal Investigator: Kunal Chelani, Chalmers tekniska högskola
- Project title: [ML for weather forecast](#)
Project duration: 2022-02-01 – 2022-08-01
Principal Investigator: Ricardo Vinuesa, Kungliga Tekniska högskolan
- Project title: [under-supervised learning of vision transformers for semantic segmentation](#)
Project duration: 2022-02-01 – 2022-03-05
Principal Investigator: Hossein Azizpour, Kungliga Tekniska högskolan
- Project title: [Data-driven synthetic biology for proteins](#)
Project duration: 2022-02-01 – 2022-08-01
Principal Investigator: Aleksej Zelezniak, Chalmers tekniska högskola
- Project title: [Deep-learning data processing for photon-counting CT](#)
Project duration: 2022-02-03 – 2022-09-01
Principal Investigator: Mats Persson, Kungliga Tekniska högskolan
- Project title: [Probing depressing using deep learning on functional MRI data](#)
Project duration: 2022-02-03 – 2022-09-01
Principal Investigator: Paul Hamilton, Linköpings universitet
- Project title: [Self-supervised fine-tuning of dense computer vision models for autonomous driving](#)
Project duration: 2022-02-03 – 2022-09-01
Principal Investigator: Adam Tonderski, Lunds universitet
- Project title: [Pruneformer](#)
Project duration: 2022-02-14 – 2022-09-01
Principal Investigator: Ulme Wennberg, Kungliga Tekniska högskolan
- Project title: [Learning Domain Policies for Classical Planning](#)
Project duration: 2022-02-15 – 2022-09-01
Principal Investigator: Simon Ståhlberg, Linköpings universitet
- Project title: [Self-supervised learning for satellite images](#)
Project duration: 2022-02-15 – 2022-09-01
Principal Investigator: Sebastian Gerard, Kungliga Tekniska högskolan

- Project title: [Sorting of scrap metal using self-supervised learning and transformers](#)
Project duration: 2022-02-16 – 2022-09-01
Principal Investigator: Felipe Boeira, Linköpings universitet
- Project title: [METRIC: Model and prediction of road traffic flow using drones](#)
Project duration: 2022-03-01 – 2022-09-01
Principal Investigator: Xiaoliang Ma, Kungliga Tekniska högskolan
- Project title: [Master thesis on deep neural networks for the blind camera calibration problem](#)
Project duration: 2022-02-18 – 2022-09-01
Principal Investigator: Emil Brissman, Linköpings universitet
- Project title: [HASTE: Hierarchical Analysis of Spatial and Temporal Data](#)
Project duration: 2022-03-01 – 2022-09-01
Principal Investigator: Carolina Wählby, Uppsala universitet
- Project title: [Test project to assist local people with how to use things](#)
Project duration: 2022-02-23 – 2022-05-01
Principal Investigator: Tomas Forsman, Umeå universitet
- Project title: [Deep learning models for modelling genetic variation](#)
Project duration: 2022-03-01 – 2022-09-01
Principal Investigator: Carl Nettelblad, Uppsala universitet
- Project title: [Simulating Physics with Graph Networks](#)
Project duration: 2022-02-24 – 2022-09-01
Principal Investigator: Rickard Armiento, Linköpings universitet
- Project title: [Deep learning for analysis of optical coherence tomography images](#)
Project duration: 2022-02-28 – 2022-09-01
Principal Investigator: Neda Haj Hosseini, Linköpings universitet
- Project title: [Large-scale Simulations in Complex Flows](#)
Project duration: 2022-03-02 – 2022-10-01
Principal Investigator: Luca Brandt, Kungliga Tekniska högskolan
- Project title: [Training and Understanding Modern Deep Networks](#)
Project duration: 2022-03-02 – 2022-10-01
Principal Investigator: Hossein Azizpour, Kungliga Tekniska högskolan
- Project title: [iHorse – improving air quality and Health risk forecasts by data-driven modelling of traffic and atmospheric environment](#)
Project duration: 2022-03-15 – 2022-10-01
Principal Investigator: Xiaoliang Ma, Kungliga Tekniska högskolan
- Project title: [Self-supervised Visual Transformers with Resolution Consistency for Remote Sensing](#)
Project duration: 2022-03-07 – 2022-10-01
Principal Investigator: Hao Hu, Kungliga Tekniska högskolan
- Project title: [Bayesian Reinforcement Learning](#)
Project duration: 2022-04-01 – 2022-10-01

Principal Investigator: Divya Grover, Chalmers tekniska högskola

- Project title: [Ocean worlds in our solar system](#)
Project duration: 2022-03-08 – 2022-10-01
Principal Investigator: Shahab Fatemi, Umeå universitet
- Project title: [A transferable Boltzmann Generator for small molecules conformations](#)
Project duration: 2022-03-14 – 2022-10-01
Principal Investigator: Juan Viguera Diez, Chalmers tekniska högskola
- Project title: [Artificial intelligence use in COVID19 and cell death research](#)
Project duration: 2022-03-08 – 2022-10-01
Principal Investigator: Sonja Aits, Lunds universitet
- Project title: [Using Reinforcement Learning to mimic human perception](#)
Project duration: 2022-03-10 – 2022-10-01
Principal Investigator: Volker Krueger, Lunds universitet
- Project title: [Deep learning for prostate cancer](#)
Project duration: 2022-04-01 – 2022-10-01
Principal Investigator: Eduard Chelebian Kocharyan, Uppsala universitet
- Project title: [Using federated learning and synthetic images to facilitate training of deep networks for medical images](#)
Project duration: 2022-03-15 – 2022-10-01
Principal Investigator: Anders Eklund, Linköpings universitet
- Project title: [Memorization in Deep Networks](#)
Project duration: 2022-04-01 – 2022-10-01
Principal Investigator: Mårten Björkman, Kungliga Tekniska högskolan
- Project title: [Photoreactivity or photostability? Disentangling factors governing the fate of excited states.](#)
Project duration: 2022-04-01 – 2022-08-01
Principal Investigator: Nanna Holmgaard List, Kungliga Tekniska högskolan
- Project title: [Generative deep learning for data-centric medical imaging](#)
Project duration: 2022-03-16 – 2022-10-01
Principal Investigator: Gabriel Eilertsen, Linköpings universitet
- Project title: [VOT benchmarking](#)
Project duration: 2022-04-01 – 2022-08-01
Principal Investigator: Johanna Björklund, Umeå universitet
- Project title: [Research in Natural Language Processing](#)
Project duration: 2022-03-16 – 2023-04-01
Principal Investigator: Tobias Norlund, Chalmers tekniska högskola
- Project title: [Research in Natural Language Processing](#)
Project duration: 2022-03-16 – 2023-04-01
Principal Investigator: Tobias Norlund, Chalmers tekniska högskola

- Project title: [Multiscale molecular modeling with machine learning](#)
Project duration: 2022-04-01 – 2022-10-01
Principal Investigator: Alexander Lyubartsev, Stockholms universitet
- Project title: [Management Beyond the Edge](#)
Project duration: 2022-03-21 – 2022-10-01
Principal Investigator: Eunil Seo, Umeå universitet
- Project title: [Cross-dataset generalization for video: are recurrent models less texture biased?](#)
Project duration: 2022-04-01 – 2022-10-01
Principal Investigator: Sofia Broomé, Kungliga Tekniska högskolan
- Project title: [Language models for Swedish in collaboration with AI Sweden and the Royal Library](#)
Project duration: 2022-03-24 – 2022-10-01
Principal Investigator: Johanna Björklund, Umeå universitet
- Project title: [ELLIIT focus period on data-driven cancer immunology](#)
Project duration: 2022-04-15 – 2022-07-01
Principal Investigator: Sonja Aits, Lunds universitet
- Project title: [Diffusion Based Video Prediction](#)
Project duration: 2022-04-04 – 2022-11-01
Principal Investigator: Stefan Bauer, Kungliga Tekniska högskolan
- Project title: [Modifying and retraining AlphaFold2 to integrate experimental information](#)
Project duration: 2022-04-04 – 2022-11-01
Principal Investigator: Claudio Mirabello, Linköpings universitet
- Project title: [Deep multi-object tracking for ground truth trajectory estimation](#)
Project duration: 2022-04-05 – 2022-11-01
Principal Investigator: Yuxuan Xia, Chalmers tekniska högskola
- Project title: [Smart surveillance system using edge-devices for wildlife preservation in animal sanctuaries](#)
Project duration: 2022-04-06 – 2022-11-01
Principal Investigator: Magnus Malmström, Linköpings universitet
- Project title: [Multimodal motion prediction and Interpretability in automotive scenes](#)
Project duration: 2022-04-07 – 2022-11-01
Principal Investigator: Joakim Johnander, Linköpings universitet
- Project title: [Recommending fashion articles](#)
Project duration: 2022-04-13 – 2022-06-01
Principal Investigator: Filip Cornell, Kungliga Tekniska högskolan
- Project title: [Heterogeneous Information Network Transformers](#)
Project duration: 2022-04-19 – 2022-11-01
Principal Investigator: Ahmed Emad, Kungliga Tekniska högskolan
- Project title: [Vehicle Behavior Prediction Using Deep Learning](#)
Project duration: 2022-04-19 – 2022-11-01

Principal Investigator: Theodor Westny, Linköpings universitet

- Project title: [Multimodal transformer for speech, text and images](#)
Project duration: 2022-04-25 – 2022-11-01
Principal Investigator: Birger Moell, Kungliga Tekniska högskolan
- Project title: [DL4NLP: Deep Learning for Natural Language Processing](#)
Project duration: 2022-05-01 – 2022-10-01
Principal Investigator: Marco Kuhlmann, Linköpings universitet
- Project title: [Modelling of transient protein-protein interactions relevant for human health](#)
Project duration: 2022-05-01 – 2023-05-01
Principal Investigator: Björn Wallner, Linköpings universitet
- Project title: [Conformational sampling and docking with AlphaFold](#)
Project duration: 2022-05-01 – 2022-11-01
Principal Investigator: Björn Wallner, Linköpings universitet
- Project title: [Multi-Task Multi-Modal Meta learning](#)
Project duration: 2022-04-29 – 2022-11-01
Principal Investigator: Marcus Liwicki, Luleå tekniska universitet
- Project title: [Semantic Room Layout Estimation from Multiple Views](#)
Project duration: 2022-04-29 – 2022-11-01
Principal Investigator: David Gillsjö, Lunds universitet
- Project title: [High throughout prediction of toxin-antitoxin protein interfaces with AlphaFold2](#)
Project duration: 2022-06-01 – 2022-06-02
Principal Investigator: Gemma Atkinson, Lunds universitet
- Project title: [PROSENSE project](#)
Project duration: 2022-05-09 – 2022-12-01
Principal Investigator: Yi Yang, Kungliga Tekniska högskolan
- Project title: [WASP-FL-DL](#)
Project duration: 2022-05-09 – 2022-12-01
Principal Investigator: Sourasekhar Banerjee, Umeå universitet
- Project title: [Deep learning for multi-object tracking](#)
Project duration: 2022-06-01 – 2022-12-01
Principal Investigator: Georg Hess, Chalmers tekniska högskola
- Project title: [Deep Learning Uncertainty using Self-Supervised Learning](#)
Project duration: 2022-06-01 – 2022-12-01
Principal Investigator: Per Sidén, Linköpings universitet
- Project title: [Multi-Objective Reinforcement Learning for Agent-Based Simulation](#)
Project duration: 2022-06-01 – 2022-12-01
Principal Investigator: Johan Källström, Linköpings universitet

- Project title: [representation learning for conversational AI + Auxiliary Tasks](#)
 Project duration: 2022-05-12 – 2022-12-01
 Principal Investigator: Mehrdad Farahani, Chalmers tekniska högskola
- Project title: [Self-supervised Transformer-based Representation Learning for Autonomous Vehicle Vision](#)
 Project duration: 2022-06-01 – 2022-12-01
 Principal Investigator: Hariprasath Govindarajan, Linköpings universitet
- Project title: [Natural Language Processing for Autonomous Driving Systems](#)
 Project duration: 2022-05-17 – 2022-12-01
 Principal Investigator: Georg Hess, Chalmers tekniska högskola
- Project title: [Feature Detection in Structure from Motion using ML](#)
 Project duration: 2022-05-20 – 2022-12-01
 Principal Investigator: Erik Tegler, Lunds universitet
- Project title: [Structural investigations of glycosaminoglycan biosynthetic enzymes](#)
 Project duration: 2022-05-24 – 2022-12-01
 Principal Investigator: Emil Tykesson, Lunds universitet
- Project title: [Deep Learning and Machine Learning for Music and Interactive Arts](#)
 Project duration: 2022-06-01 – 2022-12-01
 Principal Investigator: Kivanc Tatar, Chalmers tekniska högskola
- Project title: [InfraLife integrative structural biology course 2022](#)
 Project duration: 2022-06-01 – 2022-10-01
 Principal Investigator: Maria Josefin Lundgren Gawell, Kungliga Tekniska högskolan
- Project title: [Deep Reinforcement Learning for Optimising a Forging Line](#)
 Project duration: 2022-06-01 – 2022-12-01
 Principal Investigator: Andreas Kassler, Karlstads universitet
- Project title: [High throughout prediction of toxin-antitoxin protein interfaces with AlphaFold2](#)
 Project duration: 2022-06-01 – 2022-12-01
 Principal Investigator: Gemma Atkinson, Lunds universitet
- Project title: [Artificial Intelligence for Prostate Cancer Diagnosis and Prognostication](#)
 Project duration: 2022-06-01 – 2022-12-01
 Principal Investigator: Martin Eklund, Karolinska Institutet
- Project title: [End-to-end learning for protein docking](#)
 Project duration: 2022-06-01 – 2022-12-01
 Principal Investigator: Arne Elofsson, Stockholms universitet
- Project title: [Protein structure prediction and AI in virtual screening](#)
 Project duration: 2022-06-01 – 2022-12-01
 Principal Investigator: Jens Carlsson, Uppsala universitet
- Project title: [SciLifeLab Biolmage Informatics Facility computing](#)
 Project duration: 2022-06-01 – 2022-12-01

Principal Investigator: Christophe Avenel, Uppsala universitet

- Project title: [Interactive Music Systems and AI](#)
Project duration: 2022-06-03 – 2023-01-01
Principal Investigator: Kelsey Cotton, Chalmers tekniska högskola
- Project title: [Rao-Blackwellized Particle Filters SLAM with sidescan sonar](#)
Project duration: 2022-06-03 – 2023-01-01
Principal Investigator: Yiping Xie, Kungliga Tekniska högskolan
- Project title: [Deep Learning for Autonomous Vehicle Vision AdamGeorgJoakim](#)
Project duration: 2022-07-01 – 2023-01-01
Principal Investigator: Joakim Johnander, Linköpings universitet
- Project title: [Robust Computer Vision](#)
Project duration: 2022-07-01 – 2023-01-01
Principal Investigator: Simon Kristoffersson Lind, Lunds universitet
- Project title: [Decentralized optimization](#)
Project duration: 2022-07-01 – 2023-01-01
Principal Investigator: Firooz Shahriari Mehr, Chalmers tekniska högskola
- Project title: [Novel AI Methods for Experimentally Constrained Protein Structure Prediction](#)
Project duration: 2022-06-27 – 2023-01-01
Principal Investigator: Gabriel Ducrocq, Linköpings universitet
- Project title: [PReSTO Cryo-EM setup and testing on Berzelius](#)
Project duration: 2022-07-01 – 2023-01-01
Principal Investigator: Torben Rasmussen, Linköpings universitet
- Project title: [Machine learning-driven material discovery, from algorithm to novel material.](#)
Project duration: 2022-06-27 – 2023-01-01
Principal Investigator: QiChen Xu, Kungliga Tekniska högskolan
- Project title: [ML-Down](#)
Project duration: 2022-06-27 – 2023-01-01
Principal Investigator: Kristofer Krus, SMHI
- Project title: [Conducting Computer Graphics with Generative Reinforcement Networks](#)
Project duration: 2022-07-01 – 2023-01-01
Principal Investigator: Lida Huang, Stockholms universitet
- Project title: [Sim to Real: Automatic manufacturing quality inspection based on computer vision](#)
Project duration: 2022-06-30 – 2023-01-01
Principal Investigator: Atsuto Maki, Kungliga Tekniska högskolan
- Project title: [DeepVision: Deep Learning for Robot Vision](#)
Project duration: 2022-07-01 – 2023-01-01
Principal Investigator: Michael Felsberg, Linköpings universitet

- Project title: [Breast cancer risk prediction with transformers](#)
Project duration: 2022-06-30 – 2023-01-01
Principal Investigator: Kevin Smith, Kungliga Tekniska högskolan
- Project title: [SSL_Erik](#)
Project duration: 2022-06-30 – 2023-01-01
Principal Investigator: Lars Hammarstrand, Chalmers tekniska högskola
- Project title: [Robust machine learning for multimodal multitask learning](#)
Project duration: 2022-07-01 – 2023-01-01
Principal Investigator: Xuan-Son Vu, Umeå universitet
- Project title: [Entropy regularized dynamics and birth-death dynamics for neural networks](#)
Project duration: 2022-07-01 – 2023-01-01
Principal Investigator: Viktor Nilsson, Kungliga Tekniska högskolan
- Project title: [Large-Scale Spatio-Temporal Reasoning and Learning](#)
Project duration: 2022-07-01 – 2023-01-01
Principal Investigator: Fredrik Heintz, Linköpings universitet
- Project title: [Geometric Deep Learning for Computer Vision](#)
Project duration: 2022-08-01 – 2023-02-01
Principal Investigator: Georg Bökman, Chalmers tekniska högskola
- Project title: [DEEPMECH: Deep-learning methods to tackle outstanding problems in engineering mechanics](#)
Project duration: 2022-07-07 – 2023-02-01
Principal Investigator: Ricardo Vinuesa, Kungliga Tekniska högskolan
- Project title: [Photoreactivity or photostability? Disentangling factors governing the fate of excited states.](#)
Project duration: 2022-08-01 – 2023-02-01
Principal Investigator: Nanna Holmgaard List, Kungliga Tekniska högskolan
- Project title: [Semi-supervised Learning for Medical Image Analysis](#)
Project duration: 2022-08-01 – 2023-02-01
Principal Investigator: David Hagerman Olzon, Chalmers tekniska högskola
- Project title: [Deep integrative omic auto-encoder analysis](#)
Project duration: 2022-08-05 – 2023-03-01
Principal Investigator: Mika Gustafsson, Linköpings universitet
- Project title: [Numerical methods for optimization problems arising in ML](#)
Project duration: 2022-08-08 – 2023-03-01
Principal Investigator: Måns Williamson, Lunds universitet
- Project title: [Robot learning of symbol grounding in multiple contexts](#)
Project duration: 2022-08-08 – 2023-03-01
Principal Investigator: Mohamadreza Faridghasemnia, Örebro universitet

- Project title: [WakeNet](#)
Project duration: 2022-09-01 – 2023-03-01
Principal Investigator: Henrik Asmuth, Uppsala universitet
- Project title: [Transfer learning of deep learning vision models](#)
Project duration: 2022-08-15 – 2023-03-01
Principal Investigator: Mohammad Moein Sorkhei, Kungliga Tekniska högskolan
- Project title: [Training large-scale language models for controllable text generation in Swedish](#)
Project duration: 2022-09-01 – 2022-12-01
Principal Investigator: Dmytro Kalpakchi, Kungliga Tekniska högskolan
- Project title: [Evaluating the use of contrastive learning for Domain Generalization](#)
Project duration: 2022-08-16 – 2023-03-01
Principal Investigator: Johan Fredin Haslum, Kungliga Tekniska högskolan
- Project title: [WASP-TAD-DL](#)
Project duration: 2022-08-18 – 2023-03-01
Principal Investigator: Anindya Sundar Das, Umeå universitet
- Project title: [Motion inbetweening with score-based diffusion models](#)
Project duration: 2022-08-18 – 2023-03-01
Principal Investigator: Rajmund Nagy, Kungliga Tekniska högskolan
- Project title: [Graph neural networks for materials science](#)
Project duration: 2022-08-22 – 2022-09-29
Principal Investigator: Fredrik Lindsten, Linköpings universitet
- Project title: [ProteinSequenceGeneration](#)
Project duration: 2022-09-01 – 2023-03-01
Principal Investigator: Tobias Karlsson, Chalmers tekniska högskola
- Project title: [A pilot macromolecular 3D structure determination project - Year 10](#)
Project duration: 2022-09-01 – 2023-09-01
Principal Investigator: Martin Moche, Linköpings universitet
- Project title: [Modulation of receptor function and enzyme evolution via optimized mutagenesis designs](#)
Project duration: 2022-09-01 – 2023-03-01
Principal Investigator: Hugo Gutierrez de Teran, Uppsala universitet
- Project title: [Deep learning for morphological cell profiling](#)
Project duration: 2022-08-31 – 2023-03-01
Principal Investigator: Ola Spjuth, Uppsala universitet
- Project title: [Deep learning models for modelling genetic variation](#)
Project duration: 2022-09-01 – 2023-03-01
Principal Investigator: Carl Nettelblad, Uppsala universitet
- Project title: [Multiple-choice question generation in Swedish](#)
Project duration: 2022-08-31 – 2022-12-01

Principal Investigator: Johan Boye, Kungliga Tekniska högskolan

- Project title: [Probing depressing using deep learning on functional MRI data](#)
Project duration: 2022-09-01 – 2023-03-01
Principal Investigator: Paul Hamilton, Linköpings universitet
- Project title: [HASTE: Hierarchical Analysis of Spatial and Temporal Data](#)
Project duration: 2022-09-01 – 2023-03-01
Principal Investigator: Carolina Wählby, Uppsala universitet
- Project title: [Semi-supervised multi-task deep learning](#)
Project duration: 2022-09-01 – 2023-03-01
Principal Investigator: Miquel Marti, Kungliga Tekniska högskolan
- Project title: [Research in retrieval augmented language modeling](#)
Project duration: 2022-09-02 – 2023-04-01
Principal Investigator: Tobias Norlund, Chalmers tekniska högskola
- Project title: [A transferable Boltzmann Generator for small molecules conformations](#)
Project duration: 2022-10-01 – 2023-04-01
Principal Investigator: Juan Viguera Diez, Chalmers tekniska högskola
- Project title: [Bayesian Reinforcement Learning](#)
Project duration: 2022-10-01 – 2023-04-01
Principal Investigator: Divya Grover, Chalmers tekniska högskola
- Project title: [Deep learning based species classification of bacteria using time-lapse of growth in microfluidic chip imaged by phase contrast microscopy](#)
Project duration: 2022-09-05 – 2023-04-01
Principal Investigator: Erik Hallström, Uppsala universitet
- Project title: [DNNs for filtering batch videos on the edge](#)
Project duration: 2022-09-07 – 2023-04-01
Principal Investigator: Ahmed Ali-Eldin Hassan, Chalmers tekniska högskola
- Project title: [Deep-learning data processing for photon-counting CT](#)
Project duration: 2022-09-07 – 2023-04-01
Principal Investigator: Mats Persson, Kungliga Tekniska högskolan
- Project title: [SSL-TTS](#)
Project duration: 2022-09-13 – 2023-04-01
Principal Investigator: Siyang Wang, Kungliga Tekniska högskolan
- Project title: [Probabilistic speech synthesis using Neural HMMs](#)
Project duration: 2022-09-14 – 2023-04-01
Principal Investigator: Shivam Mehta, Kungliga Tekniska högskolan
- Project title: [Management Beyond the Edge](#)
Project duration: 2022-10-01 – 2023-04-01
Principal Investigator: Eunil Seo, Umeå universitet

- Project title: [Investigating conformational landscape of neuronal receptors using AlphaFold 2](#)
Project duration: 2022-09-20 – 2022-11-01
Principal Investigator: Erik Lindahl, Kungliga Tekniska högskolan
- Project title: [Scaling Fenchel Backpropagation](#)
Project duration: 2022-10-01 – 2023-04-01
Principal Investigator: Rasmus Kjær Høier, Chalmers tekniska högskola
- Project title: [Vehicle Behavior Prediction Using Deep Learning](#)
Project duration: 2022-09-21 – 2023-04-01
Principal Investigator: Erik Frisk, Linköpings universitet
- Project title: [PRESTO: Predictive Service Quality Management for Transport Services](#)
Project duration: 2022-09-23 – 2023-04-01
Principal Investigator: Oscar Stenhammar, Kungliga Tekniska högskolan
- Project title: [3D shape modeling with machine learning](#)
Project duration: 2022-09-27 – 2023-04-01
Principal Investigator: Lucas Brynte, Chalmers tekniska högskola
- Project title: [Kinetic Simulations of Space Plasmas using Machine Learning](#)
Project duration: 2022-10-01 – 2023-04-01
Principal Investigator: Shahab Fatemi, Umeå universitet
- Project title: [Using federated learning and synthetic images to facilitate training of deep networks for medical images](#)
Project duration: 2022-10-01 – 2023-04-01
Principal Investigator: Anders Eklund, Linköpings universitet
- Project title: [Multiscale molecular modeling with machine learning](#)
Project duration: 2022-10-01 – 2023-04-01
Principal Investigator: Alexander Lyubartsev, Stockholms universitet
- Project title: [Deep Learning for the Physical World](#)
Project duration: 2022-10-01 – 2023-04-01
Principal Investigator: Mårten Björkman, Kungliga Tekniska högskolan
- Project title: [Graph-based, spatial and temporal machine learning](#)
Project duration: 2022-09-29 – 2023-04-01
Principal Investigator: Fredrik Lindsten, Linköpings universitet
- Project title: [Learning Domain Policies for Classical Planning](#)
Project duration: 2022-09-29 – 2023-04-01
Principal Investigator: Simon Ståhlberg, Linköpings universitet
- Project title: [DL4NLP: Deep Learning for Natural Language Processing](#)
Project duration: 2022-10-01 – 2023-04-01
Principal Investigator: Marco Kuhlmann, Linköpings universitet
- Project title: [Training and Understanding Modern Deep Networks](#)
Project duration: 2022-10-01 – 2023-04-01

Principal Investigator: Hossein Azizpour, Kungliga Tekniska högskolan

- Project title: [Language models for Swedish in collaboration with AI Sweden and RISE](#)
Project duration: 2022-10-03 – 2023-05-01
Principal Investigator: Johanna Björklund, Umeå universitet
- Project title: [Deep learning for prostate cancer](#)
Project duration: 2022-10-14 – 2023-05-01
Principal Investigator: Eduard Chelebian Kocharyan, Uppsala universitet
- Project title: [Simulating Physics with Graph Networks](#)
Project duration: 2022-10-18 – 2023-05-01
Principal Investigator: Rickard Armiento, Linköpings universitet
- Project title: [Improving null space learning by pruning and rank limitation](#)
Project duration: 2022-10-24 – 2023-05-01
Principal Investigator: Dorian Staudt, Chalmers tekniska högskola
- Project title: [Multi-Task Multi-Modal Meta learning](#)
Project duration: 2022-11-01 – 2023-05-01
Principal Investigator: Marcus Liwicki, Luleå tekniska universitet
- Project title: [Artificial intelligence use in COVID19 and cell death research](#)
Project duration: 2022-10-27 – 2023-05-01
Principal Investigator: Sonja Aits, Lunds universitet
- Project title: [Semi-supervised Learning for Medical Image Analysis](#)
Project duration: 2022-10-28 – 2023-05-01
Principal Investigator: Roman Naeem, Chalmers tekniska högskola
- Project title: [Assessment of AWS Constellation on potential Nowcasting impact at high latitudes](#)
Project duration: 2022-10-31 – 2023-05-01
Principal Investigator: Bengt Rydberg, SMHI
- Project title: [Diffusion Based Generative Models for Causal Representation Learning](#)
Project duration: 2022-11-01 – 2023-05-01
Principal Investigator: Stefan Bauer, Kungliga Tekniska högskolan
- Project title: [Improving flexible structure fitting into cryo-EM maps using multiple conformers generated by AlphaFold 2](#)
Project duration: 2022-11-01 – 2023-05-01
Principal Investigator: Erik Lindahl, Kungliga Tekniska högskolan
- Project title: [Generative deep learning for data-centric medical imaging](#)
Project duration: 2022-10-31 – 2023-05-01
Principal Investigator: Gabriel Eilertsen, Linköpings universitet
- Project title: [Modifying and retraining AlphaFold2 to integrate experimental information](#)
Project duration: 2022-11-01 – 2023-05-01
Principal Investigator: Claudio Mirabello, Linköpings universitet

- Project title: [Conformational sampling and docking with AlphaFold](#)
Project duration: 2022-11-01 – 2023-05-01
Principal Investigator: Björn Wallner, Linköpings universitet
- Project title: [Learning to Solve Conditionally Convex Problems](#)
Project duration: 2022-11-01 – 2023-05-01
Principal Investigator: Paul Häusner, Uppsala universitet
- Project title: [Semantic Room Layout Estimation from Multiple Views](#)
Project duration: 2022-11-01 – 2023-05-01
Principal Investigator: David Gillsjö, Lunds universitet
- Project title: [Study of Drosophila melanogaster circadian clock regulation](#)
Project duration: 2022-11-03 – 2023-06-01
Principal Investigator: Jennifer Mutisya, Uppsala universitet
- Project title: [Computer vision for robotic manipulation](#)
Project duration: 2022-11-07 – 2023-06-01
Principal Investigator: Zehang Weng, Kungliga Tekniska högskolan
- Project title: [Structural analysis of Photosystem II by cryo-EM](#)
Project duration: 2022-11-08 – 2023-06-01
Principal Investigator: Wolfgang Schröder, Umeå universitet
- Project title: [Deep Learning Uncertainty using Self-Supervised Learning](#)
Project duration: 2022-12-01 – 2023-06-01
Principal Investigator: Per Sidén, Linköpings universitet
- Project title: [Learning General Policies for Planning using GNNs and Transformers](#)
Project duration: 2022-11-10 – 2023-06-01
Principal Investigator: Markus Fritzsche, Linköpings universitet
- Project title: [Screening for novel materials using machine learning](#)
Project duration: 2022-11-16 – 2023-03-01
Principal Investigator: Rickard Armiento, Linköpings universitet
- Project title: [Grounded Language Learning for planning and acting](#)
Project duration: 2022-11-21 – 2023-06-01
Principal Investigator: Martin Funkquist, Linköpings universitet
- Project title: [Structural investigations of glycosaminoglycan biosynthetic enzymes](#)
Project duration: 2022-12-01 – 2023-06-01
Principal Investigator: Emil Tykesson, Lunds universitet
- Project title: [Explainable machine learning methods for data-driven risk management](#)
Project duration: 2022-11-21 – 2023-06-01
Principal Investigator: Marcus Häggbom, Kungliga Tekniska högskolan
- Project title: [Image Denoising with Stochastic Differential Equations](#)
Project duration: 2022-11-21 – 2023-06-01
Principal Investigator: Ziwei Luo, Uppsala universitet

- Project title: [PROSENSE project](#)
Project duration: 2022-12-01 – 2023-06-01
Principal Investigator: Yi Yang, Kungliga Tekniska högskolan
- Project title: [WASP-FL-DL](#)
Project duration: 2022-12-01 – 2023-06-01
Principal Investigator: Sourasekhar Banerjee, Umeå universitet
- Project title: [Multi-Objective Reinforcement Learning for Agent-Based Simulation](#)
Project duration: 2022-12-01 – 2023-06-01
Principal Investigator: Johan Källström, Linköpings universitet
- Project title: [Self-supervised Transformer-based Representation Learning for Autonomous Vehicle Vision](#)
Project duration: 2022-12-01 – 2023-06-01
Principal Investigator: Hariprasath Govindarajan, Linköpings universitet
- Project title: [iHorse – improving air quality and Health risk forecasts by data-driven modelling of traffic and atmospheric environment](#)
Project duration: 2022-11-29 – 2023-06-01
Principal Investigator: Xiaoliang Ma, Kungliga Tekniska högskolan
- Project title: [End-to-end learning for protein docking](#)
Project duration: 2022-12-01 – 2023-06-01
Principal Investigator: Arne Elofsson, Stockholms universitet
- Project title: [High throughput prediction of toxin-antitoxin protein interfaces with AlphaFold2](#)
Project duration: 2022-12-01 – 2023-06-01
Principal Investigator: Gemma Atkinson, Lunds universitet
- Project title: [Artificial Intelligence for Prostate Cancer Diagnosis and Prognostication](#)
Project duration: 2022-12-01 – 2023-06-01
Principal Investigator: Martin Eklund, Karolinska Institutet
- Project title: [WASP- Private Model selection](#)
Project duration: 2022-12-01 – 2023-06-01
Principal Investigator: Ayush Kumar Varshney, Umeå universitet
- Project title: [CryoEM processing with Presto programs](#)
Project duration: 2022-12-01 – 2023-02-01
Principal Investigator: Ingemar André, Lunds universitet
- Project title: [Natural Language Processing for Autonomous Driving Systems](#)
Project duration: 2022-12-02 – 2023-07-01
Principal Investigator: Georg Hess, Chalmers tekniska högskola
- Project title: [ML-Down](#)
Project duration: 2023-01-01 – 2023-07-01
Principal Investigator: Kristofer Krus, SMHI

- Project title: [Protein structure prediction and AI in virtual screening](#)
 Project duration: 2022-12-15 – 2023-07-01
 Principal Investigator: Jens Carlsson, Uppsala universitet
- Project title: [AutoDeep: Automatic Design of Safe, High-Performance and Compact Deep Learning Models for Autonomous Vehicles](#)
 Project duration: 2022-12-21 – 2023-07-01
 Principal Investigator: Masoud Daneshtalab, Mälardalens universitet
- Project title: [DeepVision: Deep Learning for Robot Vision](#)
 Project duration: 2023-01-01 – 2023-07-01
 Principal Investigator: Michael Felsberg, Linköpings universitet
- Project title: [Efficient studies of large-scale topological and unconventional superconductors](#)
 Project duration: 2022-12-21 – 2023-07-01
 Principal Investigator: Annica Black-Schaffer, Uppsala universitet
- Project title: [MultiPRESS: Deep learning for super-resolution 4D Flow MRI](#)
 Project duration: 2023-01-16 – 2023-03-31
 Principal Investigator: David Marlevi, Karolinska Institutet
- Project title: [Underwater SLAM with sidescan sonar](#)
 Project duration: 2023-01-01 – 2023-07-01
 Principal Investigator: Yiping Xie, Kungliga Tekniska högskolan
- Project title: [Machine learning-driven material discovery, from algorithm to novel material.](#)
 Project duration: 2023-01-02 – 2023-08-01
 Principal Investigator: QiChen Xu, Kungliga Tekniska högskolan
- Project title: [Novel AI Methods for Experimentally Constrained Protein Structure Prediction](#)
 Project duration: 2023-01-03 – 2023-08-01
 Principal Investigator: Gabriel Ducrocq, Linköpings universitet
- Project title: [\(WASP project\) Beyond supervised learning for semantic analysis of visual data](#)
 Project duration: 2023-01-03 – 2023-08-01
 Principal Investigator: Sebastian Bujwid, Kungliga Tekniska högskolan
- Project title: [Robust Computer Vision](#)
 Project duration: 2023-01-03 – 2023-08-01
 Principal Investigator: Simon Kristoffersson Lind, Lunds universitet
- Project title: [Deep Learning and Machine Learning for Music and Interactive Arts](#)
 Project duration: 2023-01-04 – 2023-08-01
 Principal Investigator: Kivanc Tatar, Chalmers tekniska högskola
- Project title: [High-dimensional entropy estimation with applications to deep learning](#)
 Project duration: 2023-01-09 – 2023-08-01
 Principal Investigator: Viktor Nilsson, Kungliga Tekniska högskolan
- Project title: [Large-Scale Spatio-Temporal Reasoning and Learning](#)
 Project duration: 2023-01-10 – 2023-08-01

Principal Investigator: Fredrik Heintz, Linköpings universitet

- Project title: [Interactive Music Systems and AI](#)
Project duration: 2023-01-11 – 2023-08-01
Principal Investigator: Kelsey Cotton, Chalmers tekniska högskola
- Project title: [Smart surveillance system using edge-devices for wildlife preservation in animal sanctuaries](#)
Project duration: 2023-02-01 – 2023-08-01
Principal Investigator: Magnus Malmström, Linköpings universitet
- Project title: [MCMC for Stellar Magnetic Field Reconstruction](#)
Project duration: 2023-01-18 – 2023-08-01
Principal Investigator: Jennifer Andersson, Uppsala universitet
- Project title: [Integrative Analysis of Quantitative Trait Loci](#)
Project duration: 2023-01-27 – 2023-08-01
Principal Investigator: Wen Zhong, Linköpings universitet
- Project title: [CryoEM processing with Presto programs](#)
Project duration: 2023-02-08 – 2023-05-01
Principal Investigator: Ingemar André, Lunds universitet
- Project title: [Geometric Deep Learning for Computer Vision](#)
Project duration: 2023-02-08 – 2023-09-01
Principal Investigator: Georg Bökman, Chalmers tekniska högskola
- Project title: [DEEPSEP - Deep reinforcement learning for active flow control in turbulent boundary layers](#)
Project duration: 2023-02-08 – 2023-09-01
Principal Investigator: Ricardo Vinuesa, Kungliga Tekniska högskolan
- Project title: [Complex Networks, WASP PhD project](#)
Project duration: 2023-02-08 – 2023-09-01
Principal Investigator: Yifei Jin, Kungliga Tekniska högskolan
- Project title: [High-Dimensional Bayesian Optimization](#)
Project duration: 2023-02-08 – 2023-09-01
Principal Investigator: Leonard Papenmeier, Lunds universitet
- Project title: [Deep Federated Learning using Transformers](#)
Project duration: 2023-02-13 – 2023-09-01
Principal Investigator: Sargam Gupta, Umeå universitet
- Project title: [General PhD research project for WASP funded student](#)
Project duration: 2023-02-13 – 2023-09-01
Principal Investigator: Daniel Gedon, Uppsala universitet
- Project title: [Cryo-EM studies of the Phosphatidylinositol-4-Phosphate 5-Kinase Type 1 Alpha](#)
Project duration: 2023-02-15 – 2023-09-01
Principal Investigator: Michael Hall, Umeå universitet

- Project title: [Learning design principles for photoinduced molecular processes from ML-enhanced quantum dynamics simulations](#)
 Project duration: 2023-02-15 – 2023-09-01
 Principal Investigator: Nanna Holmgaard List, Kungliga Tekniska högskolan
- Project title: [Transfer learning of deep learning vision models](#)
 Project duration: 2023-03-01 – 2023-09-01
 Principal Investigator: Mohammad Moein Sorkhei, Kungliga Tekniska högskolan
- Project title: [Deep learning models for modelling genetic variation](#)
 Project duration: 2023-03-01 – 2023-09-01
 Principal Investigator: Carl Nettelblad, Uppsala universitet
- Project title: [DEEPMECH: Deep-learning methods to tackle outstanding problems in engineering mechanics](#)
 Project duration: 2023-02-25 – 2023-09-01
 Principal Investigator: Ricardo Vinuesa, Kungliga Tekniska högskolan
- Project title: [Super-resolution with diffusion models](#)
 Project duration: 2023-02-25 – 2023-09-01
 Principal Investigator: Zheng Zhao, Uppsala universitet
- Project title: [Equivariant attention for thermal transport simulations: Proof of concept](#)
 Project duration: 2023-02-25 – 2023-09-01
 Principal Investigator: Florian Knoop, Linköpings universitet
- Project title: [Structure-Function studies of Photosystem II](#)
 Project duration: 2023-02-25 – 2023-09-01
 Principal Investigator: Johannes Messinger, Uppsala universitet
- Project title: [Learning based motion planning](#)
 Project duration: 2023-02-27 – 2023-09-01
 Principal Investigator: Bernhard Wullt, Uppsala universitet
- Project title: [FASTER-AI: Fully Autonomous Safety- and Time-critical Embedded Realization of Artificial Intelligence](#)
 Project duration: 2023-02-27 – 2023-07-01
 Principal Investigator: Masoud Daneshtalab, Mälardalens universitet
- Project title: [Human Protein Atlas - Protein structure prediction using AlphaFold](#)
 Project duration: 2023-02-28 – 2023-09-01
 Principal Investigator: Kalle von Feilitzen, Kungliga Tekniska högskolan
- Project title: [Adaptive optimization of bosonic quantum information processing](#)
 Project duration: 2023-02-28 – 2023-09-01
 Principal Investigator: Patric Holmvall, Chalmers tekniska högskola
- Project title: [Semi-supervised multi-task deep learning](#)
 Project duration: 2023-03-01 – 2023-09-01
 Principal Investigator: Miquel Marti, Kungliga Tekniska högskolan

- Project title: [Neuroimage analysis for Alzheimer's disease using deep learning](#)
 Project duration: 2023-03-02 – 2023-10-01
 Principal Investigator: Hang Zhao, Göteborgs universitet
- Project title: [A transferable Boltzmann Generator for small molcules conformations](#)
 Project duration: 2023-04-01 – 2023-10-01
 Principal Investigator: Juan Viguera Diez, Chalmers tekniska högskola
- Project title: [Screening for novel materials using machine learning](#)
 Project duration: 2023-03-03 – 2023-10-01
 Principal Investigator: Rickard Armiento, Linköpings universitet
- Project title: [Mapping Fcuntional Brain Connectivity Alterations in Alzhiemier's Disease with Machine Learning](#)
 Project duration: 2023-03-03 – 2023-10-01
 Principal Investigator: Jiawei Sun, Karolinska Institutet
- Project title: [Closing the Modality Gap of CLIP embedding space](#)
 Project duration: 2023-03-03 – 2023-10-01
 Principal Investigator: Peiyang Shi, Kungliga Tekniska högskolan
- Project title: [Horse 3D reconstruction](#)
 Project duration: 2023-03-08 – 2023-10-01
 Principal Investigator: Ci Li, Kungliga Tekniska högskolan
- Project title: [AI-assisted plankton monitoring](#)
 Project duration: 2023-03-08 – 2023-10-01
 Principal Investigator: Anders Andersson, Kungliga Tekniska högskolan
- Project title: [Cloud robotics for large-scale manipulation](#)
 Project duration: 2023-03-08 – 2023-10-01
 Principal Investigator: Shutong Jin, Kungliga Tekniska högskolan
- Project title: [Deep learning analysis of anatomical brain connectivity in Alzheimer's disease and Ageing](#)
 Project duration: 2023-03-08 – 2023-10-01
 Principal Investigator: Blanca Zufiria, Karolinska Institutet
- Project title: [Deep learning based species classification of bacteria using time-lapse of growth in microfluidic chip imaged by phase contrast microscopy](#)
 Project duration: 2023-04-01 – 2023-10-01
 Principal Investigator: Erik Hallström, Uppsala universitet
- Project title: [Bayesian Reinforcement Learning](#)
 Project duration: 2023-04-01 – 2023-10-01
 Principal Investigator: Divya Grover, Chalmers tekniska högskola
- Project title: [Research in retrieval augmented language modeling](#)
 Project duration: 2023-04-01 – 2023-10-01
 Principal Investigator: Tobias Norlund, Chalmers tekniska högskola

- Project title: [Management Beyond the Edge](#)
Project duration: 2023-04-01 – 2023-10-01
Principal Investigator: Eunil Seo, Umeå universitet
- Project title: [3D Helical Reconstruction of Amyloid Fibrils formed by the human Islet Amyloid Polypeptide and its mutants](#)
Project duration: 2023-03-22 – 2023-10-01
Principal Investigator: Michal Maj, Uppsala universitet
- Project title: [Numerical methods for optimization problems arising in ML](#)
Project duration: 2023-03-29 – 2023-10-01
Principal Investigator: Måns Williamson, Lunds universitet
- Project title: [Unsupervised Landmark detection](#)
Project duration: 2023-03-30 – 2023-10-01
Principal Investigator: Markus Ekvall, Kungliga Tekniska högskolan
- Project title: [SSL-TTS](#)
Project duration: 2023-04-01 – 2023-10-01
Principal Investigator: Siyang Wang, Kungliga Tekniska högskolan
- Project title: [HUDI: Huge Complex Diagnostic Imaging Data](#)
Project duration: 2023-03-29 – 2023-10-01
Principal Investigator: Jonas Lantz, Linköpings universitet
- Project title: [AlphaFold2 modelling for structural data](#)
Project duration: 2023-03-30 – 2023-10-01
Principal Investigator: Leonardo Monroy, Uppsala universitet
- Project title: [Modelling isoforms and conformations of Kv7 channels through AlphaFold](#)
Project duration: 2023-03-31 – 2023-10-01
Principal Investigator: Sara Liin, Linköpings universitet
- Project title: [Deep Learning for the Physical World](#)
Project duration: 2023-04-01 – 2023-10-01
Principal Investigator: Mårten Björkman, Kungliga Tekniska högskolan
- Project title: [Datasets for Autonomous Driving](#)
Project duration: 2023-03-31 – 2023-07-01
Principal Investigator: Georg Hess, Chalmers tekniska högskola
- Project title: [Modulation of receptor function and enzyme evolution via optimized mutagenesis designs](#)
Project duration: 2023-03-31 – 2023-10-01
Principal Investigator: Hugo Gutierrez de Teran, Uppsala universitet
- Project title: [MultiPRESS: Deep learning for super-resolution 4D Flow MRI](#)
Project duration: 2023-03-31 – 2023-10-01
Principal Investigator: David Marlevi, Karolinska Institutet

- Project title: [HASTE: Hierarchical Analysis of Spatial and Temporal Data](#)
Project duration: 2023-03-31 – 2023-10-01
Principal Investigator: Carolina Wählby, Uppsala universitet
- Project title: [Deep learning for morphological cell profiling](#)
Project duration: 2023-03-31 – 2023-10-01
Principal Investigator: Ola Spjuth, Uppsala universitet
- Project title: [Kinetic Simulations of Space Plasmas](#)
Project duration: 2023-04-01 – 2023-10-01
Principal Investigator: Shahab Fatemi, Umeå universitet
- Project title: [DL4NLP: Deep Learning for Natural Language Processing](#)
Project duration: 2023-04-01 – 2023-10-01
Principal Investigator: Marco Kuhlmann, Linköpings universitet
- Project title: [Using federated learning and synthetic images to facilitate training of deep networks for medical images](#)
Project duration: 2023-04-01 – 2023-10-01
Principal Investigator: Anders Eklund, Linköpings universitet
- Project title: [Graph-based, spatial and temporal machine learning](#)
Project duration: 2023-04-01 – 2023-10-01
Principal Investigator: Fredrik Lindsten, Linköpings universitet
- Project title: [Training and Understanding Modern Deep Networks](#)
Project duration: 2023-04-01 – 2023-10-01
Principal Investigator: Hossein Azizpour, Kungliga Tekniska högskolan
- Project title: [Vehicle Behavior Prediction Using Deep Learning](#)
Project duration: 2023-04-01 – 2023-10-01
Principal Investigator: Erik Frisk, Linköpings universitet
- Project title: [Pose and shape inference with machine learning](#)
Project duration: 2023-04-01 – 2023-10-01
Principal Investigator: Lucas Brynte, Chalmers tekniska högskola
- Project title: [Outdoor sparse sensing and superresolution of acoustic fields](#)
Project duration: 2023-04-05 – 2023-11-01
Principal Investigator: Elias Zea, Kungliga Tekniska högskolan
- Project title: [Robust machine learning for multimodal multitask learning](#)
Project duration: 2023-04-05 – 2023-11-01
Principal Investigator: Xuan-Son Vu, Umeå universitet
- Project title: [Deep Learning Based Road Geometry Estimation](#)
Project duration: 2023-04-06 – 2023-11-01
Principal Investigator: Adam Lilja, Chalmers tekniska högskola
- Project title: [Atomistic Modelling of Barocaloric Plastic Crystals using Equivariant Graph Neural Network Interatomic Potentials](#)

Project duration: 2023-04-11 – 2023-11-01

Principal Investigator: Johan Klarbring, Linköpings universitet

- Project title: [Breast Tomosynthesis Generation and Reconstruction](#)
Project duration: 2023-04-17 – 2023-11-01
Principal Investigator: Zhikai Yang, Kungliga Tekniska högskolan
- Project title: [WASP-TAD-DL2](#)
Project duration: 2023-04-17 – 2023-11-01
Principal Investigator: Anindya Sundar Das, Umeå universitet
- Project title: [Deep-learning data processing for photon-counting CT](#)
Project duration: 2023-04-17 – 2023-11-01
Principal Investigator: Mats Persson, Kungliga Tekniska högskolan
- Project title: [Deep learning for prostate cancer](#)
Project duration: 2023-05-01 – 2023-11-01
Principal Investigator: Eduard Chelebian Kocharyan, Uppsala universitet
- Project title: [federated frank-wolfe](#)
Project duration: 2023-04-21 – 2023-11-01
Principal Investigator: Ali Dadras, Umeå universitet
- Project title: [Synthesizing tau pathology from structural brain imaging using deep learning](#)
Project duration: 2023-04-21 – 2023-11-01
Principal Investigator: Yu-Wei Chang, Göteborgs universitet
- Project title: [PReSTO-Cryo-EM study of GPCRs protein](#)
Project duration: 2023-04-25 – 2023-11-01
Principal Investigator: Linda Juniar, Göteborgs universitet
- Project title: [Improving Domain Generalization approaches for High Content Imaging Data](#)
Project duration: 2023-04-27 – 2023-11-01
Principal Investigator: Johan Fredin Haslum, Kungliga Tekniska högskolan
- Project title: [Scaling laws under different task complexities](#)
Project duration: 2023-04-27 – 2023-11-01
Principal Investigator: Kevin Smith, Kungliga Tekniska högskolan
- Project title: [Conformational sampling and docking with AlphaFold](#)
Project duration: 2023-05-01 – 2023-11-01
Principal Investigator: Björn Wallner, Linköpings universitet
- Project title: [Modifying and retraining AlphaFold2 to integrate experimental information](#)
Project duration: 2023-05-01 – 2023-11-01
Principal Investigator: Claudio Mirabello, Linköpings universitet
- Project title: [Continual Learning Methods for Large-Scale Language Models](#)
Project duration: 2023-05-01 – 2023-11-01
Principal Investigator: Magnus Boman, Kungliga Tekniska högskolan

- Project title: [Multi-Task Multi-Modal Meta learning](#)
Project duration: 2023-05-01 – 2023-11-01
Principal Investigator: Marcus Liwicki, Luleå tekniska universitet
- Project title: [AlphaFold2 prediction of the virus-host interactome](#)
Project duration: 2023-04-30 – 2023-11-01
Principal Investigator: Vasili Hauryliuk, Lunds universitet
- Project title: [Artificial intelligence use in biomedical research](#)
Project duration: 2023-05-01 – 2023-11-01
Principal Investigator: Sonja Aits, Lunds universitet
- Project title: [Image Denoising with Stochastic Differential Equations](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Ziwei Luo, Uppsala universitet
- Project title: [Grounded Language Learning for planning and acting](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Martin Funkquist, Linköpings universitet
- Project title: [Decoding Sleep Deprivation From MEG-based Spatio-Temporal Neural Recordings using Transformers](#)
Project duration: 2023-05-04 – 2023-12-01
Principal Investigator: Andreas Gerhardsson, Karolinska Institutet
- Project title: [Learning General Policies for Planning using GNNs and Transformers](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Markus Fritzsche, Linköpings universitet
- Project title: [Structural investigations of glycosaminoglycan biosynthetic enzymes](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Emil Tykesson, Lunds universitet
- Project title: [PROSENSE project](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Yi Yang, Kungliga Tekniska högskolan
- Project title: [Explainable machine learning methods for data-driven risk management](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Marcus Häggbom, Kungliga Tekniska högskolan
- Project title: [Multi-Objective Reinforcement Learning for Agent-Based Simulation](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Johan Källström, Linköpings universitet
- Project title: [Transformer Models in Graph and Tabular data.](#)
Project duration: 2023-05-24 – 2023-12-01
Principal Investigator: Tianze Wang, Kungliga Tekniska högskolan
- Project title: [Reducing Bias and Stereotypes in the Output of Large Language Models](#)
Project duration: 2023-05-24 – 2023-12-01

Principal Investigator: Shirin Tahmasebinotarki, Kungliga Tekniska högskolan

- Project title: [FactRE: Using Knowledge Graph for Few-shot Relation Extraction](#)
Project duration: 2023-05-26 – 2023-12-01
Principal Investigator: Amirhossein Layegh Kheirabadi, Kungliga Tekniska högskolan
- Project title: [Learning Domain Policies for Classical Planning](#)
Project duration: 2023-05-30 – 2023-12-01
Principal Investigator: Simon Ståhlberg, Linköpings universitet
- Project title: [WASP-FL-DL](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Sourasekhar Banerjee, Umeå universitet
- Project title: [Self-supervised Transformer-based Representation Learning for Autonomous Vehicle Vision](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Fredrik Lindsten, Linköpings universitet
- Project title: [Diffusion Based Generative Models for Causal Representation Learning](#)
Project duration: 2023-05-31 – 2023-12-01
Principal Investigator: Stefan Bauer, Kungliga Tekniska högskolan
- Project title: [iHorse – improving air quality and Health risk forecasts by data-driven modelling of traffic and atmospheric environment](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Xiaoliang Ma, Kungliga Tekniska högskolan
- Project title: [High throughout prediction of toxin-antitoxin protein interfaces with AlphaFold2](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Gemma Atkinson, Lunds universitet
- Project title: [Optimized End-to-end learning for protein docking](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Arne Elofsson, Stockholms universitet
- Project title: [Cryo-EM studies of antibiotic resistance and RNA modification in bacterial ribosomes](#)
Project duration: 2023-05-31 – 2023-12-01
Principal Investigator: Maria Selmer, Uppsala universitet
- Project title: [Artificial Intelligence for Prostate Cancer Diagnosis and Prognostication](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Martin Eklund, Karolinska Institutet
- Project title: [Helicase HMM modelling for DNA Nanopore sequencing](#)
Project duration: 2023-05-31 – 2023-12-01
Principal Investigator: Joakim Jaldén, Kungliga Tekniska högskolan
- Project title: [Semantic Room Layout Estimation from Multiple Views](#)
Project duration: 2023-05-31 – 2023-12-01
Principal Investigator: David Gillsjö, Lunds universitet

- Project title: [Probing depressing using deep learning on functional MRI data](#)
Project duration: 2023-05-31 – 2023-12-01
Principal Investigator: Robin Kämpe, Linköpings universitet
- Project title: [Structural analysis of Photosystem II by cryo-EM](#)
Project duration: 2023-06-01 – 2023-12-01
Principal Investigator: Wolfgang Schröder, Umeå universitet
- Project title: [Datasets for Autonomous Driving](#)
Project duration: 2023-07-01 – 2023-09-01
Principal Investigator: Georg Hess, Chalmers tekniska högskola
- Project title: [Endophilin-B1 on nanodiscs](#)
Project duration: 2023-08-01 – 2023-08-16
Principal Investigator: Arni Thorlacius, Uppsala universitet
- Project title: [Endophilin-B1 on nanodiscs](#)
Project duration: 2023-08-16 – 2023-12-01
Principal Investigator: Anna Sundborger, Uppsala universitet
- Project title: [Complex Networks, WASP PhD project](#)
Project duration: 2023-09-01 – 2023-12-01
Principal Investigator: Yifei Jin, Kungliga Tekniska högskolan