Lars Ødegaard Bentsen

Curriculum Vitae

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Education

2023 (Expected) Ph.D. - University of Oslo, Department of Technology Systems

Machine Learning Applied to Wind-Based Energy Production.

2020 M.Eng. – Durham University

General Engineering with Specialisation in New and Renewables/Electrical Engineering

First Class with Honours (77.3%), equivalent to 'A' in Norwegian curriculum.

2016 Upper Secondary – Oslo Commerce School

6 (equivalent to A*) in all STEM related electives throughout.

Publications

Bentsen, Lars Ødegaard, Narada Dilp Warakagoda, Roy Stenbro, and Paal Engelstad (2023). "It is all Connected: A New Graph Formulation for Spatio-Temporal Forecasting", a Preprint, https://arxiv.org/abs/2303.13177

Bentsen, Lars Ødegaard, Narada Dilp Warakagoda, Roy Stenbro, and Paal Engelstad (2023). "Spatio-temporal wind speed forecasting using graph networks and novel Transformer architectures." Applied Energy. Vol. 333, 2023. doi: 10.1016/j.apenergy.2022.120565

Bentsen, Lars Ødegaard, Narada Dilp Warakagoda, Roy Stenbro, and Paal Engelstad (2022). "Probabilistic Wind Park Power Prediction using Bayesian Deep Learning and Generative Adversarial Networks." Journal of Physics: Conference Series. Vol. 2362. No. 1. IOP Publishing, 2022. doi: 10.1088/1742-6596/2362/1/012005

Bentsen, Lars Ødegaard, Simionato, Riccardo; Wallace, Benedikte & Krzyzaniak, Michael Joseph (2022). "Transformer and LSTM Models for Automatic Counterpoint Generation using Raw Audio.", Proceedings of the SMC Conferences. ISSN 2518-3672. doi: 10.5281/zenodo.6572847

Bentsen, Lars Ødegaard, Narada Dilp Warakagoda, Roy Stenbro, and Paal Engelstad (2022). "Wind Park Power Prediction: Attention-Based Graph Networks and Deep Learning to Capture Wake Losses.", Journal of Physics: Conference Series, vol. 2265, no. 2, p. 022035. IOP Publishing, 2022. doi:10.1088/1742-6596/2265/2/022035

Awards and Additional Experience

DeepWind Conference 2022 **Best Scientific Content Award:** Probabilistic Wind Park Power Prediction using Bayesian Deep Learning and Generative Adversarial Networks.

Durham University Awards: Outstanding Achievement L4 Engineering

M.Eng. R&D Project (Master's Thesis): Statistical machine learning to determine the socio-economic drivers behind EV charging in the Netherlands. Mark: First - 81%.

L3 Engineering Design: Developed medical laboratory equipment for testing light activated drugs for cancer treatment with an industry client, LightOx. We were one of few groups provided additional funding to further develop and prototype our design.

Durham University Electric Motorsport: Worked as an engineer with UK's leading solar car team. **Hatfield College Rowing Club:** Rowed for the first and second VIII in various regattas throughout the UK.

Oslo Commerce School Academically selected to partake in a four-month exchange program to Bath, UK.

Work Experience

2023 – Present	BearingPoint: Data Science Consultant – Advanced Analytics and Al	Oslo, Norway
2020 – 2023	University of Oslo – Doctoral Research Fellow	Oslo, Norway
2019	Vodafone – Summer Internship, Technology: Developed a new tool for managing new product development projects within the customer program delivery team.	Newbury, UK
2018 – 2019	Mentor Norway – Teacher: Maths/Physics lessons for upper-secondary education.	Online
2018	Oslo Summer School – Assistant Teacher	Oslo, Norway
2016 – 2019	Godt Brød – Certified Coffee Barista	Oslo, Norway
2014 – 2015	Lyn Ski – Ski Instructor: Cross-country skiing instructor for children. Two seasons.	Oslo, Norway
2014 – 2015	Oksnøen Summer Camp – Staff: Two summers.	Råde, Norway

Selected Presentations

March 2023	Lillestrøm Public Library: Artificial intelligence to optimise power production for offshore wind turbines
February 2023	dScience Lunch Seminar – University of Oslo: Using machine learning to improve energy utilisation for offshore wind turbines
November 2022	Nordic Al Meet 2022 Conference – Oslo, Norway: Probabilistic Wind Park Power Prediction using Bayesian Deep Learning and Generative Adversarial Networks
July 2022	RAVE Consortium Meeting – Hamburg, Germany (+Online): Probabilistic Wind Park Modelling on the RAVE dataset for the Alpha Ventus Wind Farm.
June 2022	Sound and Music Computing Conference – Saint-Étienne, France: Transformer and LSTM Models for Automatic Counterpoint Generation using Raw Audio

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2023	Northern Lights Deep Learning (NLDL) Conference 2024 – Tromsø, Norway
2023	Elsevier – Transportation Research Part C: Emerging Technologies
2023	Northern Lights Deep Learning (NLDL) Conference 2023 – Tromsø, Norway

Personal Interests and Skills

Certifications Driver's Licence Class AM and B

Boating Licence (Up to 15m)

Certified Underwater Hunter and Free Diver

PADI Open Water Diver

Interests Guitar, Snowboarding/Skiing, Cooking, Travelling, Various water-based activities and always open to explore new interests!