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 (2022). " 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. 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 8 in various regattas throughout the UK.
Oslo Commerce School	Academically selected to partake in a four-month exchange program to Bath, UK.

Work Experience

2020 – 2023 (Expected Oct)	**University of Oslo – Doctoroal Research Fellow**	Oslo, Norway
2019	**Vacational Studies – Director (joint):** Appointed to co-director of Vacational Studies for a few months, interviewing for teacher positions and making decisions on future directions for the company, before deciding to pursue work in more technical areas.	Newbury, UK
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 students in upper-secondary education	Online
2018	**Oslo Summer School – Assistant Teacher**	Oslo, Norway
2016 – 2019	**Godt Brød – Cofee Barista:** Worked as a coffee barista	Oslo, Norway
2014 – 2015	**Lyn Ski – Ski Intructor:** Cross-country skiing instructor for young children	Oslo, Norway
2014 – 2015	**Oksnøen Summer Camp – Staff**	Råde, Norway

Presentations

March 2023 (Expected)	**Lillestrøm Public Library:** Machine learning to optimise power production of offshore wind turbines
February 2023 (Expected)	**dScience Lunch Seminar – University of Oslo:** Machine Learning Applied to Wind Energy; with a special focus on time-series forecasting
November 2022	**Nordic AI Meet 2022 Conference – Oslo, Norway:** Probabilistic Wind Park Power Prediction using Bayesian Deep Learning and Generative Adversarial Networks
June 2022	**Sound and Music Computing Conference – Saint-Étienne, France:** Transfomer and LSTM Models for Automatic Counterpoint Generation using Raw Audio
June 2022	**Torque 2022 Conference – Delft, Netherlands:** Attention-Based Graph Networks and Deep Learning to Capture Wake Losses.
January 2022	**DeepWind 2022 Conference – Trondheim, Norway:** Probabilistic Wind Park Power Prediction using Bayesian Deep Learning and Generative Adversarial Networks

Reviewer

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