

Curriculum Vitae

Name: **Nicki Skafte Detlefsen** Address: Ringstedvej 72, 4600 Køge, Denmark Phone: +45 23 44 27 81
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Education

- 2017 - 2020 PhD student at section for Cognitive Systems, Technical University of Denmark (DTU).
Project title: Learning invariant representations from prior knowledge in Deep Learning
- 2015 - 2017 Master in mathematical modelling and computation, Technical University of Denmark (DTU).
Grade average: 11,0.
- 2012 - 2015 Bachelor in mathematics and technology, Technical University of Denmark (DTU).
Grade average: 10,5.
- 2010 - 2012 Higher technical exam (HTX), Roskilde Technical School.
Grade average: 10,8.

Selected publications

- 2021 *What is a meaningful representation of protein sequences?*, Nicki Skafte Detlefsen, Søren Hauberg, Wouter Boomsma. Under review at Nature Communications. Arxiv link: <https://arxiv.org/abs/2012.02679>
- 2019 *Explicit Disentanglement of Appearance and Perspective in Generative Models*, Nicki Skafte Detlefsen, Søren Hauberg. In Proceedings IEEE Conf. on Neural Information Processing Systems (Neurips), Vancouver, Canada. December 2019.
- 2019 *Reliable training and estimation of variance networks*, Nicki Skafte Detlefsen, Martin Jørgensen, Søren Hauberg. In Proceedings IEEE Conf. on Neural Information Processing Systems (Neurips), Vancouver, Canada. December 2019.
- 2019 *Diffeomorphic Temporal Alignment Nets*, Ron A. Shapira Weber, Matan Eyal, Nicki Skafte, Oren Shriki, Oren Freifeld. In Proceedings IEEE Conf. on Neural Information Processing Systems (Neurips), Vancouver, Canada. December 2019.
- 2018 *Deep Diffeomorphic Transformer Networks*, Nicki Skafte Detlefsen, Oren Freifeld, Søren Hauberg. In Proceedings IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), Salt Lake City, USA. July 2018.

Work experience

- 2021 - now Postdoctoral Researcher at DTU Compute
Research in deep generative models and manifold learning. Teaching course 02476 Machine Learning Operations. Master and bachelor project supervision.
- 2020 - now Core developer and maintainer at Pytorch-Lightning
<https://github.com/PyTorchLightning/pytorch-lightning>
- 2016 - 2017 Teaching assistant in course 02450 Introduction to machine learning and datamining at Technical University of Denmark
- 2014 - 2016 Teaching assistant in course 01035 Mathematics 2 at Technical University of Denmark
- 2013 - 2016 Part time research assistant, COWI

Additional information

- Programming languages (experience in decreasing order): Python, Matlab, C/C++, R, Maple, SAS
- Programming frameworks (experience in decreasing order): Pytorch, Tensorflow, CUDA
- Active contributor at stackoverflow and open source code on github
- Mentor for students in high school and university