

HERMANNI HÄLVÄ

CONTACT INFORMATION

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[personal website](#)

EDUCATION

University of Helsinki 2019 - Present
Ph.D. Computer Science - Machine Learning

- Research focus: unsupervised deep learning, particularly non-linear ICA and identifiable representation learning
- Supervisor: Aapo Hyvärinen

University College London 2017 - 2018
MSc. Computational Statistics and Machine Learning

- Dean's list award for outstanding academic performance
- Masters thesis: *Deep Hyperbolic Semantic Embedding Models for Zero-Shot Learning* – Supervised by Prof. Bradley Love

University of Cambridge 2011 - 2012
MPhil. Economics

University of Warwick 2008 - 2011
BSc. Economics

- Award for the best undergraduate thesis in economics.

PUBLICATIONS

H. Hälvä, S. Le Corff, L. Lehericy, J. So, Y. Zhu, E. Gassiat, and A. Hyvärinen. Disentangling Identifiable Features from Noisy Data with Structured Nonlinear ICA. In *Advances in Neural Information Processing Systems (NeurIPS2021)*, Virtual, 2021.

H. Morioka, **H. Hälvä**, A. Hyvärinen. Independent innovation analysis for non-linear vector autoregressive process. In *Proc. Artificial Intelligence and Statistics (AISTATS2021)*, Virtual, 2021.

H. Hälvä and A. Hyvärinen. Hidden Markov Nonlinear ICA: Unsupervised learning from nonstationary time series. In *Proc. 36th Conf. on Uncertainty in Artificial Intelligence (UAI2020)*, Virtual, 2020.

PROFESSIONAL EXPERIENCE

VTT Technical Research Centre of Finland 2016 - 2017
Machine learning research intern (part of compulsory national service)

BlackRock Investment Management, London 2012 - 2016
Associate, Risk and Quantitative Analysis

PROGRAMMING SKILLS

Python (inc. JAX, PyTorch, TensorFlow), R, \LaTeX 2 ϵ