Nanbo Li

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EDUCATION

The University of Edinburgh

Ph.D. in Machine Learning and Computer Vision

Thesis Title: Generative Factorization For Object-Centric Representation Learning
Supervisors: Prof. Robert B. Fisher (principal) and Prof. Chris Williams (second)

The University of Edinburgh

M.Sc. in Artificial Intelligence (with Distinction)

Wuhan University of Technology

B.Eng. in Automation Engineering (Outstanding Engineer)

Edinburgh, UK

2016–2017

SCHOLARSHIPS AND AWARDS

School of Informatics Scholarship	$Edinburgh,\ UK$
School of Informatics, The University of Edinburgh	2018

EXPERIENCE

Research Intern	$Zurich,\ Switzerland$
Facebook Reality Labs	Fall 2021
Research Intern	San Jose, USA
NEC Laboratories America. Inc	Summer~2021

PUBLICATIONS

- Align-Deform-Subtract: An Interventional Framework for Explaining Object Differences
 Cian Eastwood^{1†}, Li Nanbo^{1†}, CKI Williams
 International Conference on Learning Representations (ICLR) Workshop: Objects, Structure and Causality, 2022
- Object-Centric Representation Learning with Generative Spatial-Temporal Factorization Li Nanbo, Muhammad Ahmed Raza, Hu Wenbin, Zhaole Sun, Robert B. Fisher Advances in Neural Information Processing Systems (NeurIPS), 2021
- 3. Learning Object-Centric Representations of Multi-Object Scenes from Multiple Views Li Nanbo, Cian Eastwood, Robert B. Fisher

 Advances in Neural Information Processing Systems (NeurIPS), 2020 (Spotlight, top 3%)
- Duplicate Latent Representation Suppression for Multi-Object Variational Autoencoders Li Nanbo, Robert B. Fisher The British Machine Vision Conference (BMVC), 2021
- 5. Controllable Video Generation by Learning the Underlying Dynamical System with Neural ODE Yucheng Xu, **Li Nanbo**, Arushi Goel, Zijian Guo, Zonghai Yao, Hamidreza Kasaei, Mohammadreze Kasaei, Zhibin Li arXiv preprint arXiv:2303.05323, 2023

- 6. Hybrid Multi-Camera Visual Servoing to Moving Target Hanz Cuevas-Velasquez^{1†}, **Nanbo Li^{1†}**, Radim Tylecek, Marcelo Saval-Calvo, Robert B. Fisher IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2018
- 7. DUGMA: Dynamic Uncertainty-Based Gaussian Mixture Alignment Can Pu, **Nanbo Li**, Radim Tylecek, Robert B. Fisher International Conference on 3D Vision (3DV), 2018 (Oral presentation)
- 8. SDF-MAN: Semi-Supervised Disparity Fusion with Multi-Scale Adversarial Networks Can Pu, Runzi Song, Radim Tylecek, **Nanbo Li**, Robert B Fisher Remote Sensing, 2019