Nanbo Li

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Education

The University of Edinburgh *Edinburgh, UK*
Ph.D. in Machine Learning and Computer Vision *2018–2022*

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

The University of Edinburgh *Edinburgh, UK*
*M.Sc. in Artificial Intelligence (**with Distinction**)* *2016–2017*

Wuhan University of Technology *Wuhan, China*
*B.Eng. in Automation Engineering (**Outstanding Engineer**)* *2012–2016*

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

1. 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

2. 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%**)

4. Duplicate Latent Representation Suppression for Multi-object Variational Autoencoders
Li Nanbo, Robert B. Fisher
The British Machine Vision Conference (BMVC), 2021

5. 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

6. 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**)

7. *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