

# LINH TRAN

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Last updated: 25/10/2021

## RESEARCH INTEREST

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Representation Learning, Deep Generative Model, Disentanglement, Compositionality, 2D and 3D Vision

## EDUCATION

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**Ph.D. Computing, Imperial College London (Thesis submitted)** 2017 – 2021

Advisor: Prof. Maja Pantic

Thesis topic: Interpretable Deep Generative Models for Automated Face Analysis

Research approaches for interpretable and human controllable representations in the context of automated face analysis. Developed methods based on deep generative models.

**M.Sc. Informatics, Technical University of Munich** 2014 – 2016

Thesis topic: Incremental One-Class Support Vector Machines with Minor Labels (advisors: Prof. Claudia Eckert, Dr. Huang Xiao)

Guides Research: ProfPPIdb: pairs of physical protein-protein interactions predicted for entire proteomes. (advisors: Prof. Burkhard Rost, Dr. Tobias Hamp)

**B.Sc. Computer Science, University of Paderborn** 2008 – 2013

**B.Sc. Computer Science, University College London** 2010 – 2011

Exchange year with German Academic Exchange Service (DAAD) year scholarship

## EMPLOYMENT

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**Senior Research Scientist** 11/2020 –  
Autodesk, London, UK

**Research Intern** 06/2019 – 09/2019  
Google Brain, Berlin, Germany  
Topic: Representation learning for efficient deep ensembles  
Hosts: Sebastian Nowozin, Rodolphe Jenatton

**Research Intern** 01/2019 – 05/2019  
Samsung AI, Cambridge, UK  
Topic: Disentangled representations for sequential face analysis  
Host: Maja Pantic, Yannis Panagakis

**Research Assistant** 10/2016 – 11/2019  
Imperial College London, London, UK

**Junior Software Engineer** 01/2016 – 09/2016  
British Broadcasting Company, London, UK

## PUBLICATIONS

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**Google Scholar Profile:** <https://scholar.google.com/citations?user=GHIstP8AAAAJ>

### Preprints

1. **L. Tran**, A.H. Khasahmadi, A. Sanghi and S. Asgari. Group-disentangled Representation Learning with Weakly-Supervised Regularization. arXiv preprint arXiv:2110.12185, 2021.

2. **L. Tran**, M. Pantic, and M.P. Deisenroth. Cauchy-Schwarz Regularized Autoencoder. arXiv preprint arXiv:2101.02149, 2021.

### Conference Articles

1. F. Wenzel, K. Roth, B.S. Veeling, J. Swiatkowski, **L. Tran**, S. Mandt, J. Snoek, T. Salimans, R. Jenatton and S. Nowozin. How Good is the Bayes Posterior in Deep Neural Networks Really? 37th International Conference on Machine Learning (ICML), 2020.
2. J. Swiatkowski, K. Roth, B.S. Veeling, **L. Tran**, J.V. Dillon, S. Mandt, J. Snoek, T. Salimans, R. Jenatton and S. Nowozin. The k-tied Normal Distribution: A Compact Parameterization of Gaussian Mean Field Posteriors in Bayesian Neural Networks. 37th International Conference on Machine Learning (ICML), 2020.
3. J. Kossaifi, **L. Tran**, Y. Panagakis and M. Pantic. GAGAN: Geometry-Aware Generative Adversarial networks. Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018.
4. **D. L. Tran**, R. Walecki, Ognjen S. Eleftheriadis, B. Schüller and M. Pantic. Deepcoder: Semi-parametric Variational Autoencoders for Automatic Facial Action Coding. Proceedings of the IEEE International Conference on Computer Vision (ICCV), 2017.

### Journal Articles

1. **L. Tran**, J. Kossaifi, Y. Panagakis and M. Pantic. Disentangling Geometry and Appearance with Regularised Geometry-Aware Generative Adversarial Networks. International Journal of Computer Vision, pp.1-21, 2019.
2. **L. Tran**, T. Hamp and B. Rost. ProfPPIdb: pairs of physical protein-protein interactions predicted for entire proteomes. Plos ONE, 2018.

### Peer-Reviewed Workshop Articles

1. **L. Tran**, B.S. Veeling, K. Roth, J. Swiatkowski, J.V. Dillon, J. Snoek, S. Mandt, T. Salimans, S. Nowozin and R. Jenatton. Hydra: Preserving Ensemble Diversity for Model Distillation. Uncertainty & Robustness in Deep Learning (UDL), ICML 2020.
2. **L. Tran**, S.A. Taghanaki, A.H. Khasahmadi, A. Sanghi. Weakly-Supervised Group Disentanglement using Total Correlation. Workshop on Weakly Supervised Learning (WeaSuL), ICLR 2021.

### AWARDS

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<b>NeurIPS 2021 Outstanding Reviewer Award (8%)</b>	2021
<b>ICML 2020 Reviewer Award (best 33%)</b>	2020
<b>NeurIPS 2019 Best Reviewer Award (best 400)</b>	2019
<b>Adobe PhD Fellowship</b>	2019
<b>AWS Cloud Credits for Research (USD 19,800)</b>	2018
<b>Women in Machine Learning Workshop Travel Award</b>	2017
<b>German Academic Exchange Service (DAAD) Year Scholarship</b>	2010 – 2011

### PROFESSIONAL SERVICE

#### Conference Reviewing

- International Conference on Machine Learning (ICML) 2019, 2020, 2021

- Conference on Neural Information Processing Systems (NeurIPS) 2019, 2020, 2021
- International Conference on Learning Representations (ICLR) 2020, 2021
- AAAI Conference on Artificial Intelligence 2019
- Conference on Computer Vision and Pattern Recognition (CVPR) 2019
- International Conference for Computer Vision (ICCV) 2019

### Journal Reviewing

- International Journal for Computer Vision (IJCV) 2018 –
- Transactions on Pattern Analysis and Machine Intelligence (TPAMI) 2018 –
- Image and Vision Computing (IMAVIS) 2017 –

## TEACHING

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- Data Structure and Algorithms** 2017, 2018, 2019, 2020  
Teaching Assistant, Imperial College London (Dr. Heikki Peura)
- Data Analysis and Probabilistic Inference** 2018, 2019  
Teaching Assistant, Imperial College London (Prof. Marc Deisenroth)
- Statistical Machine Learning** 2018  
Teaching Assistant, Imperial College London (Prof. Stefanos Zaferiou)
- Machine Learning** 2017, 2018  
Teaching Assistant/Course Support Leader, Imperial College London (Prof. Maja Pantic)

## SKILLS

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- Research** Deep Learning, Probabilistic Modeling, Representation Learning, Computer Vision, Face Analysis
- Coding** Python (Tensorflow, PyTorch, Pyro) Java, PHP, MySQL, AWS, Linux CLI
- Languages** English (full professional fluency, IELTS: 8.0, C1), German (native), Vietnamese (native), French (basic)

## VOLUNTEER

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- Women in Machine Learning Workshop, NeurIPS 2021** 06/2021 - 01/2022  
Finance and Sponsorship co-Chair
- Bridges To Prosperity** 05/2021 - 01/2022  
Pro-bono project lead (Large-scale deep learning of geospatial data for remote needs assessment)
- Equality, Diversity and Education Committee** 2017 – 2018  
Graduate Student Representative (Department of Computing, Imperial College London)
- 28th British Machine Vision Conference (BMVC)** 2017  
Student Volunteer
- Malteser Germany** 2009 – 2010  
Math and English tutor of students between 11-18 years old