## ■ dai24@cam.ac.uk % dan-andrei-iliescu.github.io in /dan-andrei-iliescu ? /user=VimcbYgAAAAJ

| EDUCATION   |                        |
|---|------------------------|
| <b>University of Cambridge</b> , UK<br>PhD Machine Learning and Data Science  | Oct 2019 - Dec 2022    |
| :: Full scholarship from the <i>Alan Turing Institute</i> , UK's national AI research institute.  |                        |
| :: Developing generative models for disentanglement and missing data imputation (images, tin  | ne-series).            |
| <b>University of Cambridge</b> , UK<br>MPhil Advanced Computer Science  | Oct 2018 - Jul 2019    |
| :: Starred distinction (+80%) in <i>"Machine Learning"</i> and <i>"Natural Language Processing"</i> courses<br>:: Dissertation on <i>representation learning</i> with <i>Variational Autoencoders</i> . | S.                     |
| <b>University of Manchester</b> , UK<br>BSc (Hons) Computer Science, <i>First-Class</i> (1:1)   | Sep 2015 - Jul 2018    |
| :: Dissertation on visualizing the internal layers of Generative Adversarial Networks.  |                        |
| EXPERIENCE  |                        |
| Papercup Technologies, London, UK<br>Machine Learning Intern  | June 2022 - Current    |
| :: Developing deep learning models for controllable text-to-speech synthesis.   |                        |
| <b>University of Cambridge</b> , UK<br>Teaching Assistant, <i>Department of Computer Science</i>  | October 2019 - Current |
| :: Teaching "Data Science", "Machine Learning & Bayesian Inference" and "Information Theory"  | ' courses.             |
| <b>Yokai.ai</b> , Paris, France<br>Part-time Research Consultant  | May 2021 - Oct 2021    |
| :: Developed deep learning models for automatically assessing image quality.  |                        |
| <b>University of Manchester</b> , UK<br>Research Assistant, <i>Machine Learning Group</i>   | June 2018 - Sep 2018   |
| :: Co-authored a paper on the trade-off between independence and specialization in neural net   | twork ensembles.       |
| <b>ARM Ltd</b> , Manchester, UK<br>Software Engineering Intern, <i>High-Performance Computing Group</i>   | June 2017 - Sep 2017   |
| :: Co-authored a whitepaper on optimizing ML operations for vectorized CPUs.  |                        |
| PUBLICATIONS  |                        |
| Topics: deep learning, representation learning, disentanglement, causal inference, variational autoenc  | oders, computer vision |

2022 Group Disentanglement Under Conditional Shift 1. D.A. Iliescu, D.J Wischik under review **Training a Task-Specific Image Reconstruction Loss** 2022 2. A. Mustafa, A. Mikhailiuk, D.A. Iliescu, V. Babbar, R.K. Mantiuk WACV, 2022, pp. 2319-2328 **Disentangling Domain and Content** 2020 3. D.A. Iliescu, A. Mikhailiuk, D.J. Wischik, R.K. Mantiuk arXiv:2202.07285 To Ensemble or Not Ensemble: When Does End-to-End Training Fail? 2020 4. A. Webb, C. Reynolds, D.A. Iliescu, W. Chen, H. Reeve, M. Lujan, G. Brown ECML-PKDD, 2020, pp. 109-123 Arm Scalable Vector Extensions and Application to Machine Learning 2018 5. D.A. Iliescu, F. Petrogalli ARM Ltd, whitepaper **PROJECTS** Al Mosaic, Award at St Edmund's College, Cambridge Art Contest 2021 Python algorithm for assembling images using patches from other images. **○**/ai-painting Computer Laboratory ML Reading Group, University of Cambridge, UK 2019 - 2020 Organized weekly ML paper presentations for PhD students in the Computer Lab. Visualizing GAN Layers, Undergraduate Thesis 2018 Plotting MNIST class information within GAN layers. O/visualizing-GAN-layers TOOLS

**ML and Data Science:** Pytorch, Tensorflow, Scipy, Sklearn, Pandas, Plotly. **Development:** Git, Docker, Bash, Poetry, DVC.