Cambridge, Massachusetts, 02139 United States of America

EDUCATION	
Massachusetts Institute of Technology, Cambridge, MA. Ph.D., Computer Science – Supervisors: Prof. Daniela Rus, Dr. Ramin Hasani Researching data-efficient deep learning	9/2021 - Current
University of Cambridge, Cambridge, UK. M.Eng. Enginering – Supervisors: Prof. Richard E. Turner Thesis: Probablistic Inference for Continual Learning Awarded 1st Class Honours in thesis (No exams due to COVID)	10/2019 - 6/2020
<ul> <li>University of Cambridge, Cambridge, UK.</li> <li>B.A. Enginering</li> <li>Specialized in Information Engineering (Signal Processing and Communications)</li> <li>Awarded 1st Class Honours every year, top 3%, 15%, and 9% in years 1-3</li> </ul>	10/2016 - 6/2019
WORK EXPERIENCE	
SeroTracker, NLP Engineer Researched and implemented NLP models for accelerating evidence-based medicine Reduced abstract screening time by 46% using NLP in an ongoing systematic review of COVID-19 seroprevalence studies	2/2021 - 8/2021
University of Cambridge Machine Learning Group, Research Assistant Continued research from master's thesis on probabilistic continual learning for neural networks	6/2020 - 12/2020
Jade Owl Ltd., Prediction Algorithm Intern Researched and developed strategies for setting price and spread for cryptocurrency market making	6/2019 - 9/2019
<b>Softwire</b> , Software Engineering Intern Full-stack web development using Angular 2 with Typescript, using Firebase as the backend	6/2017 - 9/2017
HONORS AND AWARDS	
2019 College Prize - Awarded based on part IIA exam performance	6/2019
2018 M.R. Lynch Prize - Awarded based on part IB exam performance	6/2018
2017 M.R. Lynch Prize - Awarded based on part IA exam performance	6/2017
Bronze medal at 2016 International Physics Olympiad	7/2016
2016 Blyth-Cambridge Commonwealth Scholarship - Fully-funded undergraduate scholarship to the University of Cambridge	1/2016

## PUBLICATIONS

\*Equal Contribution

- 5 Noel Loo, Ramin Hasani, Alexander Amini, Daniela Rus. Efficient Dataset Distillation using Random Feature Approximation, *Conference on Neural Information Processing Systems (NeurIPS)*, 2022
- 4 Noel Loo, Ramin Hasani, Alexander Amini, Daniela Rus. Evolution of Neural Tangent Kernels under Benign and Adversarial Training, Conference on Neural Information Processing Systems (NeurIPS), 2022
- 3 Sara Perlman-Arrow\*, **Noel Loo\***, Niklas Bobrovitz, Tingting Yan, Rahul K. Arora. A real-world evaluation of the implementation of NLP technology in abstract screening of a systematic review, *MedRxiv preprint (under review)*, 2021
- 2 Noel Loo, Siddharth Swaroop, Richard E. Turner. Generalized Variational Continual Learning, International Conference on Learning Representations (ICLR), 2021
- 1 Noel Loo, Siddharth Swaroop, Richard E. Turner. Combining Variational Continual Learning with FiLM Layers, *ICML* 2020 workshop on Lifelong learning (Spotlight)

## PATENTS

Systems and Methods for Efficient Dataset Distillation Using Non-Deterministic Feature Approximation Inventors: **Noel Loo**, Ramin Hasani, Alexander Amini, Daniela L. Rus Provisional No. 63/390,952.

# References

### Prof. Daniela Rus,

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### Dr. Ramin Hasani,

Research Scientist at Computer Science and Artificial Intelligence Lab (CSAIL), Massachusetts Institute of Technology (MIT), Cambridge, MA, rhasani@mit.edu

Prof. **Richard E. Turner**, Professor at the University of Cambridge Cambridge, UK. ret26@cam.ac.uk