Daniel (Chee Hian) Tan

Personal site: https://daniel-ch-tan.github.io/
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Education

SEP 2017 - SEP 2021

Stanford University - B. Sc. Mathematical and Computational Sciences

SEP 2022 - PRESENT

University College London - M. Phil/PhD. Computer Science

Research Posts

JUL 2021 - AUG 2022

Agency of Science, Technology, and Research, Singapore - Research Engineer

- Supervised by Michael Meng Yee Chuah and Yau Wei Yun at Institute of Infocomm Research, Robotics and Autonomous Systems department
- Implemented reinforcement learning methods to train legged locomotion controllers
- Deployed said controllers to hardware and collected real-world data to improve system

Publications

<u>Daniel Chee Hian Tan</u>*, Jenny Zhang*, Michael (Meng Yee) Chuah and Zhibin Li. **Perceptive Locomotion with Controllable Pace and Natural Gait Transitions Over Uneven Terrains.** arXiv preprint https://arxiv.org/abs/2301.10894

Esin Darici Haritaoglu, Nicholas Rasmussen, <u>Daniel C. H. Tan</u>, Jennifer Ranjani J., Jaclyn Xiao, Gunvant Chaudhari, Akanksha Rajput, Praveen Govindan, Christian Canham, Wei Chen, Minami Yamaura, Laura Gomezjurado, Aaron Broukhim, Amil Khanzada, Mert Pilanci **Using Deep Learning with Large Aggregated Datasets for COVID-19**Classification from Cough. arXiv preprint https://arxiv.org/abs/2201.01669

Industry Experience

AUG 2022 - OCT 2022

Virufy - MLOps Tech Lead

- Supervised by Amil Khanzada, CEO. Volunteering on-and-off since Apr 2021
- Designed, developed, and maintained data processing pipelines to aggregate offline and streaming data into a single unified format and data store
- Developed pipeline to deploy trained model checkpoints as microservices to be used by the frontend application

• Worked closely with research team to iterate quickly on methods

JUN 2019 - DEC 2019

GovTech, Singapore - *Software Engineering Intern*

- Supervised by Leehong Lau, Tech Lead of Embedded Systems team.
- Developed a computer vision pipeline for crowd-counting to deploy on edge devices
- Experimented with multiple methods of compressing large vision models without losing performance

JUN 2019 - SEP 2019

TripAdvisor, Boston - *Software Engineering Intern*

- Implemented a ranking algorithm based on word features to maximize diversity of top results
- Developed a machine learning model to rank hotel listings based on predicted click-through rate

Teaching

University College London

- COMP0188 Deep Representations and Learning, Autumn 2022
- COMP0233 Research Software Engineering in Python, Autumn 2022