

# Ming Liang Ang

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## EDUCATION

### NATIONAL UNIVERSITY OF SINGAPORE

#### BS IN MATHEMATICS AND DATA SCIENCE (2ND MAJOR)

Grad in Aug 2023

GPA: 4.87 / 5.0 or 3.9/4.0

Dean List AY20/21 Sem 2

Dean List AY21/22 Sem 1

Dean List AY21/22 Sem 2

## LINKS

Github:// [neoanarika.github.io](https://github.com/neoanarika)

LinkedIn:// [Ming Liang Ang](#)

Twitter:// [@neoanarika](#)

## COURSEWORK

### UNDERGRADUATE

Machine Learning

Theory and Algorithms for Online Learning

Bayesian Statistics

Differential Geometry

Data Structures and Algorithms

Programming Methodology

Optimisation

Real Analysis

Measure Theory

Topology

### SELF-STUDY

Software Engineering

Natural Language Processing + Practicum

Computer Vision + Practicum

Artificial Intelligence + Practicum

(*Research Asst. 2x*)

Unix Tools and Scripting

## SKILLS

Machine Learning Frameworks

Tensorflow • Pytorch • JAX

Languages

Python • Java • C/C++

• MATLAB •  $\LaTeX$

Development

Jupyter • Git • Anaconda

## EXPERIENCE

### TERTIARY COURSES | MACHINE LEARNING TRAINER

Jan 2019 - Present | Singapore

- Taught machine learning to professionals at **Tertiary Courses** since 2019.
- Developed some the courseware used by the training center to teach Tensorflow, Pytorch and Python.

### GOOGLE SUMMER OF CODE ( TENSORFLOW/PYPROBML)

May 2021 – Aug 2021 | Singapore

- Worked on translating MATLAB/Tensorflow code into Pytorch and JAX for Kevin Murphy and Mahmoud Soliman for the textbook that Kevin is writing.
- Implemented Block Gibbs Sampling for Potts Model using JAX. Furthermore, implemented a collection of GANs and VAEs. More info.

## RESEARCH

### COLLABORATIVE LEARNING AND ADAPTIVE ROBOTS (CLEAR) LAB | UNDERGRADUATE RESEARCHER

May 2020 – Jan 2021 | Singapore

Worked with **Abdul Fatir Ansari** and **Prof Harold Soh** on a general method on refining samples from deep generative models via discriminator gradient flows. This work got published at **ICLR 21 (Poster)**.

### JONATHAN SCARLETT RESEARCH GROUP | UNDERGRADUATE RESEARCHER

Jan 2021 – Nov 2021 | Singapore

Worked with Yang Sun and **Prof Jonathan Scarlett** on using deep generative priors to solve inverse linear problems such as compressed sensing.

### EMTIYAZ KHAN RESEARCH GROUP | UNDERGRADUATE RESEARCHER

Jun 2022 – Present | Singapore

Worked with **Emtiyaz Khan** and **Siddharth Swaroop** on discovering Bayesian principles/methods for adaption and continual learning problems example knowledge adaption priors etc.

## SIDE-PROJECTS

### THOMPSON SAMPLING FOR GAUSSIAN | CLASS PROJECT

Jan 2021 – Apr 2021 | Singapore

Building on the work of Risk-Constrained Thompson Sampling for CVaR Bandits we explored the bandit problem under a different risk function namely the entropic risk.

### COMPUTER VISION WITH GOOGLE CORAL EDGE-TPU COURSEWARE DEVELOPMENT | LEAD DEVELOPER

Nov 2020 – Dec 2020 | Singapore

Led the development of a course on Computer Vision with Google CORAL edge-TPU for mobile robots for Singapore Polytechnic with **Analytics District**.

## PUBLICATIONS

- [1] A. F. Ansari, M. L. Ang, and H. Soh. Refining deep generative models via discriminator gradient flow. In *International Conference on Learning Representations*, 2021.