

Utkarsh Mali

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utkarshmali.github.io

Education

University of Toronto, Victoria College

H.B.Sc. in Physics, Mathematics and Computer Science

2018-2022

Research Experience

UNDERGRADUATE

Kilonovae Light Curves

University of Toronto

2021

Supervisor: Dr. Keir K. Rogers

Model fitting visible counterparts to gravitational wave events using Gaussian processes, principal components analysis and Markov-chain Monte-Carlo.

Image classification of Martian topographic features

University of Toronto

2020

Supervisor: Professor Christopher Lee

Created an efficient scalable machine learning model using supervised machine learning methods, mask detection.

Circuit Quantum Electrodynamics

National University of Singapore

2020

Supervisor: Professor Yvonne Gao

Exploring a software automating the discovery of superconducting qubits.

Organic Spectroscopy

National University of Singapore

2019

Supervisor: Dr. Krzysztof Banas

Rapid authentication of organic materials using Fourier Transform Infrared (FT-IR) spectroscopy using multivariate analysis.

Conference Posters

- SURP Kilonovae Poster
- SURF Chris Lee poster

Conference Talks

- CUPC 2020
- SURP Kilonova Presentation
- ASSU 2019 (EBN)
- SSLS (EBN)
- NUS CQT (Quantum)

Publications

- UTAT

Awards

- SURP Poster Award
 - SURP funding
 - NUS 2019 Funding
 - NUS 2020 Funding
 - SURF 2020 Funding
 - Deans list
 - NYAA Gold
 - NYAA Silver
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Professional Positions

- UTAT
- Challenger (Not include?)

Professional Development

- International Mentor
 - Identify Assist Refer
 - Peer Support Relationship
 - 1 on 1 Communication
 - Facilitating Groups Online
 - Creating an Inclusive Environment
- Army
 - Driving Course
 - Leadership Basic Training

Outreach

Equity, Diversity, and Inclusion
