

YUNNI QU

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EDUCATION

University of Toronto, St. George

Expected graduation: May 2023

Honours Bachelor of Science

Double major: Data Science, Statistical Science

GPA: 3.6

WORK EXPERIENCE

Research Intern

May 2022 - present

Princess Margaret Cancer Research Center, Toronto, ON, Canada

- simulated potential noises in medical imaging
- benchmarked robustness of MRI segmentation models (nn-UNet) used on cancer diagnosis

Research Assistant

Apr 2022 - present

University of Toronto, Department of Computer and Mathematical Sciences

- explored different factors relating to academic activities that contribute to energy save during COVID-19
- cleaned, analyzed, and visualized conference attendance data from international conferences

Research Assistant

May 2021 - Aug 2021

University of Toronto, Department of Medical Imaging

- managed and coordinated lab projects
- analyzed data for lab data base

PUBLICATIONS

[1] **Yunni Qu**, David Yan, Eric Xing, Fengbo Zheng, Jie Zhang, Liangliang Liu, Gongbo Liang. *Beware the Black-Box of Medical Image Generation: An Uncertainty Analysis by the Learned Feature Space.*

Accepted to **44TH Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC 2022)**

[2] Eric Xing, Liangliang Liu, Xin Xing, **Yunni Qu**, Nathan Jacobs and Gongbo Liang. *Neural Network Decision-Making Criteria Consistency Analysis via Inputs Sensitivity.*

Accepted to **26TH International Conference on Pattern Recognition (ICPR 2022)**

SELECTED PROJECTS

Symmetry Based Alzheimer's Diagnose Python, PyTorch, TensorFlow

Mar 2021 - Aug 2021

- used multi-branch CNN network on MRI data to explore if symmetry information can improve the accuracy of diagnosis of AD in deep learning models

Topic Analysis of News Networks Python

Jan 2021 - May 2021

- extracted tweets data from official Twitter accounts of the news networks with API
- analyzed and compared topics of various news networks using the Latent Dirichlet Allocation model

HONORS AND AWARDS

Best Visualization Winner	2022
American Statistical Association DataFest at the University of Toronto	
Dean's List Scholar	2020, 2021, 2022
Faculty of Art and Science, University of Toronto	

EXTRACURRICULAR ACTIVITIES

Recognized Study Group Leader	Sep 2020 - Dec 2020
University of Toronto, Faculty of Art and Science	
Volunteer Grader	Nov 2020
Canadian open Math Contest	

ONLINE COURSES

Neural Networks and Deep Learning Coursera	Jan 2021
<ul style="list-style-type: none">gained basic skills on implementation of neural networks	
SQL for Data Science Coursera	July 2020
<ul style="list-style-type: none">gained SQL data analysis skillscompleted final project on Yelp data analysis using SQLite	