

# George Andrew Jeffreys

[georgej@bu.edu](mailto:georgej@bu.edu)

[linkedin.com/in/george-jeffreys-555718b7](https://www.linkedin.com/in/george-jeffreys-555718b7)

[github.com/G-Jeffreys](https://github.com/G-Jeffreys)

## Education

2022

### Boston University, Ph.D. in Mathematics

GPA: 3.90

- Researched mathematical theory of deep learning. Created and ran simulations using novel convolutional neural network techniques in Python using the TensorFlow and Keras packages.
- Applied research towards transfer learning in natural language processing via a variant of the attention mechanism.
- Applied research towards theoretical quantum computing to develop new solution to the 'Measurement Problem.'
- Wrote, edited, and presented peer-review quality papers.
- Taught college level mathematics courses.

2016

### Rutgers University, Bachelor of Art in Mathematics

GPA: 3.85 - *Magna Cum Laude*

## Experience

2022-2023

### Part Time Mathematics Lecturer at Northeastern University

- Designed course materials for and taught math courses.

2015

### Undergraduate Research at University of Maryland Baltimore County

- Investigated a particular novel dimension reduction technique for data with many more parameters than observations.
- This project was funded and developed in a joint program with the U.S. Census Bureau.

## Publications and Presentations

Apr 2023

*Noncommutative Geometry of Computational Models and Uniformization for Framed Quiver Varieties* (with Siu-Cheong Lau)

Dec 2022

*Quantum Finite Automata and Quiver Algebras* (with Siu-Cheong Lau)

Aug 2022

*Kähler Geometry of Framed Quiver Moduli and Machine Learning* (with Siu-Cheong Lau)

Jul 2022

41st International Conference on Bayesian and Maximum Entropy Methods in Science and Engineering

Jun 2022

BU-Keio-Tsinghua Geometry and Mathematical Physics Workshop

Feb 2022

Boston University Geometry and Physics Seminar