ANDREW LACKIE

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EDUCATION

Georgia Institute of Technology, Atlanta

August 2020 - May 2023

Bachelor of Science, Physics
Bachelor of Science, Mathematics Overall GPA: 3.65

Also pursuing a Russian minor

TECHNICAL STRENGTHS

Languages	Mathematica, Python, Java, Latex, Julia, HTML, CSS, Javascript, Matlab, C++, C
Technologies	Linux, Microsoft, OSX
Version Control	Github

WORK EXPERIENCE

Georgia Institute of Technology, GA 08/2020 - 08/2021

Tutor

- MATH 1552 & MATH 1564 (Integral Calculus & Linear Algebra with Abstract Vector Spaces)

University of Mississippi, MS 08/2019 - 03/2020

Tutor

- PHYS 211 PHYS 212 (intro. Physics I & II)

RESEARCH

Estimation of uncertainties regarding the measurement of black-hole binary parameters 10/2019-06/2021

Researcher

Under the supervision of Sashwat Tanay (a physics graduate student in Leo Stein's group at the University of Mississippi), I had undertaken a research project to give theoretical estimates of the uncertainty pertaining to the measurement of black-hole binaries' parameters (like mass of the black-hole, distance etc). The measurement of these parameters is taken via the detection of the gravitational waves emitted by such black-hole binaries. To that end, I sought to compute the Fisher matrix for the gravitational waveforms proposed in Ref. [arXiv: 1707.02088] because the square root of the diagonal elements of the inverse Fisher matrix gives an estimate of the uncertainty of measurement.

Ergodic research in dynamical systems 06/2021-10/2021

Researcher

- Under the supervision of Dr. Alex Blumenthal (a math professor at the Georgia Institute of Technology), I had undertaken a research project which aimed to model dynamical systems using the numeral Ulam projection for a continuous state space markov chain.