## Taotao Yang

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## SUMMARY

Recent graduate with a Masters of Science in Astrophysics and a Bachelor of Science in Physics. Experienced in computational and experimental research with quantitative modelling and numerical methods. Currently invested in engaging machine learning with gravitational wave signal space investigations.

## Education

LDUCATION		
University of Gla		Glasgow, United Kingdom
Georgia Institute	es in Astrophysics	Sep 2022 – Dec 2023 Atlanta, United States
Bachelor of Scie		Aug 2017 - Dec 2021
Experience		
Georgia Institute of Technology Student Assistant • Provided LATEX drafting revisions and lab report commentary in Modern Optics Lab • Graded weekly lab reports to facilitate optical concept learning and scientific writing form		Atlanta, United States Aug 2021 - Dec 2021
Thejiang Sci-Tec		Hangzhou, China
Research Assista • Designed Qua		Aug 2016 - Feb 2017
	<b>r</b> DxYouth event to promote community engagement of scientific information ocal high school student band to perform and give talk on TEDxYouth eve	
Projects		
University of Gl • Employ and d • Achieve 5-10 m	ave Template Bank Placement asgow evelop JAX based python packages for rapid template bank density calcula ns template density calculation with continued integration rmalizing flows with JAX to approximate the generated template bank den	
		Glasgow, United Kingdom
University of Gl • Develop Num		Jan 2023 - Apr 2023
<ul> <li>Vertically Integrated Project - Patagonia</li> <li>Georgia Institute of Technology <ul> <li>Used GIS based data analysis to evaluate strategic infrastructure planning for Patagonia</li> <li>Provided GIS inventory support for sustainable carrying capacity model development</li> </ul> </li> </ul>		Atlanta, United States Jan 2021 – May 2021 National Park
Modern Optics I		Atlanta, United States
• Collected data	e of Technology cal apparatus and used laser diode and optical fibers to recreate optical pho a using digital multimeter and oscilloscope for interference grating and bear visualized laser beam profiles using IGOR and MATLAB	
Cosmology Computational Project Georgia Institute of Technology • Performed numerical integration with Python simulating distance-z relation and lookback		Atlanta, United States Aug 2020 - Dec 2020 & time-z relation
<ul> <li>Advanced Laboratory</li> <li>Georgia Institute of Technology <ul> <li>Recreated Davisson and Germer experiment and Cavendish experiment</li> <li>Analysed data using Excel regarding Hall effect, particle-wave duality, and de Broglie's ma</li> </ul> </li> </ul>		Atlanta, United States May 2020 - Aug 2020 natter wave
Language, Skii	LS, AND AWARDS	
Language: Software:	Chinese, English, Python (NumPy, SciPy, JAX, Matplotlib, Pandas), IATE Mathematica, GitHub, IGOR, ArcGIS, Blender, SolidWorks, Microsoft Of Scientific Writing, Public Speaking, Presentation 3D Printing, Soldiering, Oscilloscope, Camera	
Technical:	Classical Mechanics, Quantum Mechanics, Statistical Mechanics, Electrod General Relativity, Cosmology, Nonlinear Dynamics, Thermodynamics, G	•

Awards: Dean's List, Faculty Honors