## Tianyi Yang

EDUC	ATION <u>s2109053@ed.ac.uk / yty950616@gmail.com</u>   Personal Website: <u>https://www.astrotianyiyang.com/</u>	
Univer	rsity of Edinburgh	Edinburgh, UK
	Physics and Astronomy	2020-now
0	Relevant Projects: Feedback-driven anisotropy in the circumgalactic medium for quenching galaxies in the SIMBA (Python, Excel, Shell Scripting, Slurm, ~30 TB data set, Data Visualization, Parallel programming)	A simulations
0	Understanding the Sunyaev-Zeldovich decrement versus halo mass with the Simba and TNG Simulations	
	(Python, Excel, Shell Scripting, Slurm, ~ 30 TB data set, Data Visualization, Parallel programming, Time Se	eries Analysis,
	Regression, Statistics Interference, Machine Learning)	
0	A Universal Profile for Stacked Filaments from Cold Dark Matter Simulations	1· · · 、
	(Python, Excel, Shell Scripting, Slurm, ~7 TB data set, Data fitting, Regression, Parallel programming, Mac	chine Learning)
	•	aterloo, Canada
	of Physics and Astronomy   GPA: 3.9/4.0 (86.5/100);	2018-2020
0	Relevant Projects: The Mass-to-Light Ratios of Filaments in the Cosmic Web (Python, Excel, SQL, Shell Scripting, ~1 TB data set, Data Visualization, Parallel programming, Regression	, Statistics
0	<b>Interference</b> ) Gravitational Potential from Small-Scale Clustering in Action Space: Application to Gaia DR2	
0	(Python, Excel, C++, ~1 TB data set, Data fitting, Regression, Statistics Interference, Machine Learning)	
J <b>nive</b> i	rsity of Waterloo W	aterloo, Canada
	<i>Physics (Astrophysics specialization)</i>   GPA: 4.0/4.0 (90.0/100)	2013-2018
0	Relevant Courses: Statistics; Probability; Computational Physics	
)ther H	Educational Experience: Perimeter Institute (Associate graduate student); The Canadian Astronomical Society (Graduat	e student member)
ROF	ESSIONAL EXPERIENCE	
		terloo, Canada
Univer 0	<i>rsity of Waterloo</i> Star Formation in the Low-Metallicity Environment in the Early Universe (Language: <b>Python, Excel, MATLAB</b> )	2018
0	Gas-to-Dust Temperature Ratio in Star-Forming Regions with JCMT (Language: Python, Excel, MATLAB)	
ſeach	ing Assistant	
		Edinburgh, Uk
0 0	Data Analysis and Machine Learning (Language: <b>Python, Excel, C++, TensorFlow, scikit-learn, NLP</b> ) Introduction for Astrophysics	2022 2022
0	Observational Astronomy Lab	2022
0	Electromagnetism 1	2021
Univer 0	sity of Waterloo Wa Introductory Astronomy	terloo, Canada 2018-2019
	I Research Services Ambassadors sity of Edinburgh	05/2022-08/2022 Edinburgh, UK
0	Analysis of Twitter data on Fetal Alcohol Spectrum Disorders	
0 0	Analysis of the role of diversity in football, based on 10 years of premier league player data Data modelling and visualization for The Peace and Conflict Resolution Evidence Platform	
Hacka	thon in data exploration and analysis	08/2022
		Edinburgh, UK
0	How various types of conflict evolved with time ( maps making: https://drive.google.com/drive/folders/1Q4NbPA5UW1ux7MdqU0MclrD1hNcgCdfO?usp=sharing )	
	<u>nups://drive.google.com/drive/10/ders/1Q4NdPA5U w 1ux/MaqUUMcIrD1nincgCatO/usp=snaring</u> )	
ELCC		02/2023-05/2023
0	Trade map visualization (with GeoPansas), text analysis (with spaCy) of Edinburgh	Edinburgh, UK
SELE	CTED PUBLIC TALKS AND IN POPULAR CULTURE	
0	Astroseminar, invited talk, Universidad Aut´onoma de Madrid	2023
0	Matter and light distribution of stacked filament between group-mass halo pairs: insights from observations and simu	ilations 2023
0	European Astronomical Society Annual Meeting Feedback-driven anisotropy in the CGM for SIMBA galaxies	2023
0	The ThreeHundred Project Annual Meeting	
0	Probing the impact of AGN feedback on gas distribution with SIMBA and illustris TNG	
	SIMBA Collaboration Meet	2023
	European Astronomical Society Annual Meeting AGN on the beach, the many facets of fuelling and feedback in jetted AGN	2023 2023
0	Understanding the Sunyaev-Zeldovich decrement versus halo mass with the SIMBA and TNG Simulations	202.
-	The ThreeHundred Project Annual Meeting	2022
	19 <sup>th</sup> Durham-Edinburgh Extragalactic Workshop	2023
0	How Dark are Filaments in the Cosmic Web	2021
~	17 <sup>th</sup> Durham-Edinburgh Extragalactic Workshop, virtual conference The Mass-to-light Ratios of Filaments in the Cosmic Web	2019
0	2019 annual general meeting of the Canadian Astronomy Society	2019
0	"How dark is the cosmic web?" in Live Science	2020
IONC	DURS	
0	Principal's Career Development Scholarship at the University of Edinburgh	
0	Marie Curie Graduate Student Award	
0	International Master's Student Award	

ter's Student war 0 Dean List at the University of Waterloo

## LANGUAGES

- 0
- Python (fluent); Excel (fluent); MATLAB (fluent); C++ (intermediate); SQL, R Language (basic) Chinese (native); English (fluent); Russian (advanced intermediate); Spanish (intermediate); German, French (basic) 0