Richard Stiskalek

CONTACT INFORMATION	Website: richard-sti.github.io/ Email: rich Github: github.com/richard-sti	Email: richard.stiskalek@protonmail.com Phone: +420720153538	
RESEARCH INTERESTS	Galaxy formation and dynamics, gravitational-wave astronomy, tests of gravity, Bayesian inference		
EDUCATION	Ludwig-Maximilians-University , Munich, Germany M.Sc. Physics, with a thesis on gravitational-wave birefringence	2020 – present	
	University of Glasgow, Glasgow, United Kingdom B.Sc. Physics with Astrophysics with Honours of the First Class, GPA 21.3/22.0 (1st in class)		
	Hong Kong University of Science and Technology , Kowloon, Hong Kong Undergraduate Student Exchange Program	2017 – 2018	
	Gymnazium Jakuba Skody, Prerov, Czech Republic	2008 – 2016	
RESEARCH EXPERIENCE	Research Intern, Max Planck Institute for Gravitational Physics (Hannover) Project: "EPSIE: an Embarrassingly Parallel Sampler for Inference Estima Supervisor: Dr Collin Capano		
	 Co-developed EPSIE, a (reversible) Markov chain Monte Carlo sample Research Intern, University of Oxford 	er 07/2019 - 09/2019	
	Project: "The dependence of subhalo abundance matching on galaxy photometry and selection criteria" Supervisor: <i>Dr Harry Desmond</i>		
	- Tested fundamental assumptions of clustering-fitted parametrised subhalo abundance matching mod-		
	elling in both optically and HI-selected regimes Research Intern , University of Glasgow	06/2018 - 09/2018	
	Project: "Are stellar–mass binary black hole mergers isotropically distributed?" Supervisors: <i>Dr John Veitch</i> and <i>Dr Chris Messenger</i>		
	- Developed a Bayesian model of the isotropy of the distribution of the d	letected black hole mergers	
Work Experience	Statistical Modelling Consultant 09/2021 - present - Development & application of algorithms to predict future states of financial markets (hierarchical Bayesian		
	models, Gaussian processes, genetic algorithms) Data Analysis Intern , Amper Market, Prague, Czech Republic	06/2017 - 09/2017	
	- Studied imbalances in the electricity network and designed a model predic		
	Seafood Processor, Silver Bay Seafoods, Naknek, Alaska, USAShipping and operating the freezer in a salmon processing plant while wor	06/2016 - 09/2016 king 16-hour shifts	
PUBLICATIONS	 "The dependence of subhalo abundance matching on galaxy photometry and selection criteria" R. Stiskalek, H. Desmond, T. Holvey, M. G. Jones. MNRAS 506:3205. [arXiv:2101.02765] "Are stellar-mass binary black hole mergers isotropically distributed?" R. Stiskalek, J. Veitch & C. Messenger. MNRAS 501:970. [arXiv:2003.02919] 		
AWARDS AND	DAAD Study Scholarship, German Academic Exchange Service,	2021	
CERTIFICATES	Kerr Bursary, University of Glasgow, School of Physics & Astronomy	2020	
	Lang Scholarship, University of Glasgow, School of Physics & Astronomy	2019	
	Undergraduate Summer Bursary, Royal Astronomical SocietyDean's List, Hong Kong University of Science and Technology, School of Society	2018 zience 2018	
	Astronomy 1 Prize, University of Glasgow, School of Physics & Astronomy		
	Matthew A Muir Bursary, University of Glasgow, School of Mathematics & South East Asia Study Abroad Scholarship, University of Glasgow		
COMMUNITY INVOLVEMENT	Middle of Scotland Science Festival, Volunteer organiser	2018	
SKILLS AND KNOWLEDGE	Theoretical: General relativity, quantum field theory, information field theory, statistical inference Technical: Numerical & symbolic programming, machine learning Programming languages: Python, Mathematica, C++, C, Shell, LaTeX Natural languages: English, Czech, Slovak, French (intermediate), German (beginner)		
Interests	Long-distance running, history of physics, sci-fi and fantasy novels		