

Richard Stiskalek

CONTACT INFORMATION	Website: richard-sti.github.io/ Github: github.com/richard-sti	Email: richard.stiskalek@protonmail.com Phone: +420 720 153 538
RESEARCH INTERESTS	Gravitational-wave cosmology, galaxy formation, galaxy–halo connection, Bayesian inference	
EDUCATION	Ludwig-Maximilians-Universität München , Munich, Germany M.Sc. Physics, with a research thesis in Astrophysics	2020 – present
	University of Glasgow , Glasgow, UK B.Sc. Physics with Astrophysics with Honours of the First Class, GPA 21.3/22.0 (1st in class)	2016 – 2020
	Hong Kong University of Science and Technology , Kowloon, HK Undergraduate Student Exchange Program, GPA 3.7/4.3	2017 – 2018
WORK EXPERIENCE	Research Intern, Max Planck Institute for Gravitational Physics (Hannover) Project: “EPSIE: an Embarrassingly Parallel Sampler for Inference Estimation” Supervisor: <i>Dr Collin Capano</i> - Added support for several Euclidean and non-Euclidean proposal distributions in <i>EPSIE</i> (a Markov Chain Monte Carlo sampler), a reversible-jump MCMC support, and flexible jump interval durations	06/2020 - 09/2020
	Research Intern, University of Oxford 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 modelling in both optically and HI-selected regimes, showed that the scatter in the galaxy–halo connection substantially increases in the faint galaxies and extended the domain of validity of the model	07/2019 - 09/2019
	Research Intern, University of Glasgow Project: “Are stellar–mass binary black hole mergers isotropically distributed?” Supervisors: <i>Dr John Veitch and Dr Chris Messenger</i> - Created a Bayesian model quantifying isotropy of the underlying angular distribution of the detected stellar-mass binary black hole mergers	06/2018 - 09/2018
	Data Analysis Intern, Amper Market , Prague, Czech Republic - Examined imbalances in the electricity network, designed a model predicting the future behaviour of the market and wrote a specialised Python accounting program to manage the company’s expired invoices	06/2017 - 09/2017
	Seafood Processor, Silver Bay Seafoods , Naknek, Alaska, USA - Assisted with shipping and operating the freezer in a salmon processing plant while working 16-hours shifts in challenging working conditions	06/2016 - 09/2016
PUBLICATIONS	<ol style="list-style-type: none">“The dependence of subhalo abundance matching on galaxy photometry and selection criteria” R. Stiskalek, H. Desmond, T. Holvey, M. G. Jones. MNRAS submitted (2021). [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 CERTIFICATES	Kerr Bursary , University of Glasgow, School of Physics & Astronomy Lang Scholarship , University of Glasgow, School of Physics & Astronomy Undergraduate Summer Bursary , Royal Astronomical Society Dean’s List , Hong Kong University of Science and Technology, School of Science Astronomy 1 Prize , University of Glasgow, School of Physics & Astronomy Matthew A Muir Bursary , University of Glasgow, School of Mathematics & Statistics South East Asia Study Abroad Scholarship , University of Glasgow	2020 2019 2018 2018 2017 2017 2017
COMMUNITY INVOLVEMENT	Middle of Scotland Science Festival , Volunteer organiser	2018
SKILLS	<i>Technical:</i> Bayesian inference, numerical programming, machine learning, web scraping <i>Programming languages:</i> Python, C++, C Shell, L ^A T _E X <i>Natural languages:</i> English, Czech, Slovak, French (intermediate), German (beginner)	
INTERESTS	Philosophy and history of Physics, sci-fi and fantasy novels, long-distance running	