

ALEXANDER PAPADOPOULOS

Institute for Gravitational Research, Glasgow, Scotland

| a.papadopoulos.1@research.gla.ac.uk

| [Github Page](#)

EDUCATION

University of Glasgow, PhD, 2023-Present.

- Cosmology with Gravitational Waves in the Advanced Detector Era
- Supervisors: Dr Rachel Gray and Dr Chris Messenger
- UKRI STFC PhD Studentship

University of Edinburgh, MPhys Astrophysics (First Class), 2018-2023.

- Master's Project: Searching for non-Gaussianity in the Large Scale Structure of the Universe
- Modules including: Cosmology, Galaxy Evolution, Stellar Evolution, Statistical Physics, Numerical Recipes

Dunblane High School, Secondary Education 2012-2018.

SKILLS

- Python (numpy, astropy, bilby, pandas)
- High throughput computing (SLURM, HTCondor)
- bash
- Anaconda
- Sampling techniques (nested sampling, MCMC)
- Bayesian Inference
- Version control (git)

RESEARCH EXPERIENCE

University of Glasgow

- **PhD Project**, . So far this has focused on the inclusion of more advanced compact binary coalescence (CBC) population models into the *gwcosmo* cosmological inference pipeline.

University of Edinburgh

- **Senior Honours Project**, *Understanding the Local Expansion Rate of the Universe*. 2021-2022.
- **Telescope Group Project**, *Star Clusters*, 2021-2022.
- **MPhys Project**, *The Cosmic Dark Matter Density Field*, 2022-2023.

PUBLICATIONS

...

TEACHING EXPERIENCE

- **Online Tutor** Maths and Physics for school-aged pupils. 2018-Present.
- **Demonstrator** University of Glasgow. 2023-Present.

AFFILIATIONS AND AWARDS

- Member of the LIGO/Virgo/KAGRA (LVK) Collaboration
- Member of Institute of Physics
- Pre-Honours Certificate of Merit for MPhys Astrophysics Degree Programme

OTHER SKILLS

Languages English: Native, French: B1, German: A2.