

## **Skills**

- Skilled researcher, showing initiative and working individually and in teams
- Effective communicator and writer, having published many papers and given many talks
- Adept programmer (experience in Python, C, Mathematica, Matlab, HTML/CSS)
- Very capable autodidact; able to quickly learn new skills and areas of knowledge

## **Employment**

**Postdoctoral Research Scholar**, UC Davis, Center for Quantum Mathematics and Physics, Sept. 2016 – Sept. 2019

- Conducting research in theoretical cosmology
- Posing and investigating my own research questions as well as working in active collaboration with others
- Solving mathematical problems both analytically and numerically
- Running simulations and writing code in Mathematica, Python, and C
- Familiarising myself with relevant literature and learning new skills as required
- Writing academic papers and giving seminars to present results to other researchers

**Graduate Teaching Assistant**, University of Oxford, January 2013 – June 2016

- Taught Quantum Mechanics and General Relativity to 2<sup>nd</sup> and 3<sup>rd</sup> year undergraduate physics students
- Set work and devised additional questions, marked work, gave small group tutorials

**Summer Undergraduate Research Fellow**, Caltech, June 2011 – September 2011

- Helped develop and write code in Matlab for gravitational wave data analysis
- Presented results through talks and reports to peers and supervisors

**Astrophysics Researcher**, University of Oxford, June 2010 – August 2010

- Wrote code in IDL to investigate the evolution of galaxies
- Presented results through written reports and in group meetings

## **Education**

**D.Phil. in Theoretical Physics**, University of Oxford, Oct. 2012 – July 2016

**M.Phys. Hons. (1st class) in Physics**, University of Oxford, Oct. 2008 – June 2012

## **Other Experience and Skills**

- Refereed papers for multiple physics journals (PRL, EPJC, PLB, JCAP, and Universe), to ensure quality, accuracy, and novelty
- Helped conduct interviews for undergraduate physics admissions at New College, University of Oxford (devised questions, interviewed and helped select candidates)
- Able to speak basic French and Russian