

# Natalie B. Hogg

PhD student in theoretical cosmology at the ICG, University of Portsmouth

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Research interests: interacting dark energy, Bayesian statistics, sampling methods, numerical Boltzmann codes

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## Education

- 10/2017 – present    **PhD student**, ICG, University of Portsmouth  
Thesis topic: Interacting Dark Energy  
Supervisors: Dr Marco Bruni, Prof David Wands, Prof Robert Crittenden
- 09/2013 – 07/2017    **MPhys Hons. Astrophysics 1<sup>st</sup> class**, Aberystwyth University  
Master's dissertation: Dynamical Models of Dark Energy  
Supervisor: Prof Carsten van de Bruck (University of Sheffield)
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## Grants, awards and prizes

10/2018	<b>Short Term Scientific Mission</b>	CANTATA COST-Action grant	EUR 1100
10/2018	<b>Best Poster</b>	UoP Graduate School Poster Competition	GBP 100
05/2018	<b>Santander Mobility Award</b>	University of Portsmouth	GBP 500
04/2018	<b>Best Talk</b>	BFWG Research Presentation Day	GBP 120
01/2018	<b>Short Term Scientific Mission</b>	CANTATA COST-Action grant	EUR 1050
07/2017	<b>Breen Prize</b> (best Master's dissertation in physics)	Aberystwyth University	GBP 2000

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## Talks

10/2018	<b>Interacting vacuum dark energy</b> (invited speaker)	CANTATA meeting, University of Valencia
05/2018	<b>Dark energy: theories and observations</b>	BFWG Research Presentation Day
03/2018	<b>Interacting vacuum dark energy</b>	Advances in HEP & Cosmology, University of Southampton
12/2017	<b>Theory session summary</b>	Euclid UK Consortium Meeting, University of Portsmouth
12/2017	<b>Interacting dark energy</b>	Euclid UK Consortium Meeting, University of Portsmouth
09/2017	<b>Dynamical dark energy</b>	CANTATA COST-Action Summer School, NTUA, Corfu

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## Schools, conferences and workshops

04/2019	A History of the Universe in Redshift	University of Southampton (member of organising committee)
10/2018	3rd CANTATA Meeting	University of Valencia
12/2018	UK Cosmo	University of Nottingham
09/2018	Data Analysis Workshop	ICIC, Imperial College London
06/2018	South Coast Cosmology	University of Sussex
06/2018	Summer School on Cosmology	ICTP, Trieste
04/2018	Britgrav 2018	University of Portsmouth
03/2018	Advances in High Energy Physics and Cosmology	University of Southampton
12/2017	Euclid UK Consortium Meeting	University of Portsmouth
11/2017	South Coast Cosmology	University of Portsmouth
09/2017	CANTATA COST-Action Summer School	NTUA (Corfu)
08/2017	STFC Introductory Summer School in Astronomy	University of Manchester

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## Outreach and public engagement

03/2018	Night Sky Live "Ask the Expert"	Winchester Science Centre
01/2018	Stargazing Live demonstrator	ICG and Portsmouth Historic Dockyard
12/2017	Meet a Physicist participant	University of Portsmouth

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## Publications

### **New constraints on interacting vacuum dark energy**

Matteo Martinelli, Natalie Hogg, Simone Peirone, Marco Bruni, David Wands  
*in prep.* 2018

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