

Ricarda Beckmann

I am an early career researcher in computational astrophysics who uses simulations to study the coevolution of galaxies and supermassive black holes across cosmic time. I am passionate about working with students and providing a supportive working environment.

CONTACT DETAILS

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RESEARCH EXPERIENCE & EDUCATION

11/2020 - Current	University of Cambridge Ruth Holt research fellow , Newnham College
11/2017 - 10/2020	Institut d'Astrophysique de Paris, France Postdoctoral Researcher
10/2013 - 10/2017	University of Oxford, UK DPhil in Astrophysics - "From seed to supermassive: simulating the origin, evolution and impact of massive black holes"
10/2008 - 08/2012	Imperial College London, UK MSci in Physics with First Class Honours (grade average: 81.1%)

PUBLICATION SUMMARY

19 accepted refereed publications + 3 under review including two first-author papers
Total of 599 citations, **h-index=12** for refereed publications (ui.adsabs.harvard.edu)
[Click for full list of publications](#)

TEACHING & STUDENT SUPERVISION

10/2021 - Current	Master project supervisor , Cambridge "Distinguishing dark matter models using tidal disruption events"
07/2021 - 10/2021	Summer student supervisor, Cambridge, UK "The impact of cooling on cold clouds in hot galaxy clusters"
06/2021 - 07/2021	Summer student supervisor, Cambridge, UK "Thermal conduction and instability in dynamical friction"
02/2021 - 05/2021	Small-group teaching "Astrophysical fluid dynamics" , Cambridge
11/2020 - Current	PhD co-supervisor , IAP, France "Dynamical friction in a turbulent gaseous medium"
10/2020 - 04/2021	Master project supervisor , Cambridge "Cold cloud shredding in hot galaxy clusters"
08/2019 - Current	PhD co-supervisor , IAP, France "Super-eddington accretion across cosmic time"
04/2019 - 07/2019	Master project supervisor , IAP, France "Super-eddington jets and black hole self-regulation"
10/2014 - 07/2016	Teaching assistant for Scientific Computing, Oxford, UK

INVITED SEMINARS & CONFERENCE TALKS

+ 15 contributed conference talks at international conferences

06/2022	AGN feedback and feeding conference, Sesto, Italy
03/2022	Colloquium, University of Bath, UK
02/2022	Colloquium, University of Oxford, UK
01/2021	Seminar, University of Cambridge, UK
12/2020	Colloquium, Maynooth University, Ireland
11/2020	Seminar, University of Cambridge, UK
11/2020	Seminar, Université de Toulouse, France
10/2020	YAGN conference, Copenhagen
05/2020	Seminar, University of Marseille, France
11/2019	Seminar, University of Oxford, UK
11/2018	Seminar, Université de Toulouse, France
11/2017	Seminar, IAP, Paris, France
04/2017	Seminar, University of Oxford, UK

SCIENTIFIC MEETING ORGANISATION

07/2022	Lead organiser of the NAM2022 session “Linking simulations to observations to understand galaxy evolution”, Warwick, UK
05/2022	Lead organiser of the Kavli Focus day “Early Universe”, Cambridge, UK
Since 2020	Co-organiser of the “Galaxy discussion group” seminar, Cambridge, UK
09/2015	LOC for the Ramses User Meeting 2015, Oxford, UK
06/2015	Co-organiser of “Conference for Undergraduate Women in Physics, CUWIP2015, Oxford, UK

LEADERSHIP

11/2021 - Current	Member of Newnham College governing body, Cambridge, UK
08/2018 - 10/2020	Member of the Anti-harassment committee, Institut d’Astrophysique de Paris , France
10/2015 - 07/2017	Graduate peer support coordinator for Balliol College Oxford
10/2015 - 07/2016	Graduate mentor in Astrophysics, Oxford UK
10/2015 - 10/2016	Division graduate representative for Physics , Oxford, UK
10/2015 - 10/2016	Graduate living-out officer at Balliol College Oxford
10/2014 - 10/2015	Graduate student representative for Astrophysics, Oxford, UK

FUNDING AND RESOURCES

07/2021	4-week graduate summer student placement, 800 GBP, Institute of Astronomy, University of Cambridge
07/2021	6-week undergraduate student placement, 536 GBP, Institute of Astronomy, University of Cambridge
06/2021	4-week summer student funding, 1702 GBP, Newnham College, University of Cambridge
03/2021	Co-PI on computing time proposal, France (5.9 million CPUh)

04/2021 Co-PI on computing time proposal, UK (>30 million CPUh)
03/2020 Co-PI on computing time proposal, France (9.7 million CPUh)
03/2019 Co-PI on computing time proposal, France (12.1 million CPUh)

PRIZES & HONOURS

11/2020 Shortlisted for the “Preuve par Image” scientific image competition by the French National Research Agency CNRS
08/2012 Ken Allen Prize for **Academic Excellence**
2009 - 2012 Stipendiary of the German **National Merit Foundation**

OUTREACH

04/2022 Invited speaker at “New Scientist Instant Expert - Frontiers of Cosmology”, London, UK
07/2021 Invited guest appearance on “Multiscale musings” podcast
2020 - 2022 4 YouTube outreach talks
2014 - 2018 7 outreach talks in Oxford, London & Paris
2015 Organised a **Conference for Undergraduate Women in Physics**, Oxford
2013 - 2017 Organised “Stargazing Oxford”