

# Ian Smail

## PERSONAL DETAILS

**Full name:** Ian Robert Smail

<b>Address:</b>	Centre for Extragalactic Astronomy, Department of Physics, Durham University, South Road, Durham DH1 3LE, UK.	<b>Tel:</b>	+44 191 334 3605
		<b>Fax:</b>	+44 191 334 3645
		<b>E-mail:</b>	ian.smail [at] durham.ac.uk
		<b>ORCID/ResearcherID:</b>	0000-0003-3037-257X/M-5161-2013
		<b>Nationality:</b>	British.

## CURRENT POST

I held a personal Chair at Durham between April 2004 and August 2022. While at Durham I was the Founding Director of the Centre for Extragalactic Astronomy in the Physics Department and also Managing Director of the Durham Astronomy Research Cluster. I held an ERC Advanced Grant and a Royal Society Wolfson Merit award to support my research during 2013–2018. I retired in August 2022 and was awarded emeritus status at Durham.

## EDUCATION

**Undergraduate:** 1986–1989 Emmanuel College, University of Cambridge.

Degree: Hooper Scholarship.  
M.A. (Hons) Physics and Theoretical Physics  
(Natural Sciences Tripos).

**Postgraduate:** 1989–1993 University College, University of Durham.

Degree: Ph.D. in Astronomy.  
Title: Gravitational Lensing by Rich Clusters.  
Supervisor: Prof. Richard Ellis FRS CBE.

## RESEARCH CAREER

**1993–1995** NATO Advanced Research Fellow in the Physics, Maths and Astronomy Division of the California Institute of Technology.

**1995** Carnegie Fellow at the Observatories of the Carnegie Institution of Washington.

**1996–1998** PPARC Advanced Fellow in the Department of Physics, University of Durham.

**1998–2008** Royal Society University Research Fellow in the Department of Physics, Durham University.

**2001–2003** Philip Leverhulme Prize Fellow in the Department of Physics, University of Durham.

**2004–2022** Professor, Department of Physics, Durham University.

**2009–2017** Head of Astronomy, Department of Physics, Durham University.

**2011–2013** Leverhulme Research Fellow, Durham University.

**2013–2018** ERC Advanced Grant Laureate, Durham University.

**2013–2018** Royal Society Wolfson Merit Award Holder, Durham University.

**2015–2017** Director, Centre for Extragalactic Astronomy, Department of Physics, Durham University.

**2015–2017** Managing Director, Durham Astronomy Research Cluster, Durham University.

**1996–1997** Visiting Research Associate at the Observatories of the Carnegie Institution of Washington.

**1998** Honorary Visiting Fellow in the School of Physics, University of New South Wales, Sydney.

**2006–** International Astronomical Union Member.

## COMMITTEES AND POSTS

- 1998 Member of GBFC Advisory Panel – “*Astronomy in the Next Decade*”.
- 1998–2001 Member of UK Infrared Telescope Time Allocation Committee.
- 1999–2001 Member of UK Infrared Telescope Board.
- 1999–2000 Member of the Astronomy Panel of the PPARC Long-Term Science Review (“Vision” Panel).
- 2001 Member of the PPARC Oversight Committee.
- 2001–2010 External Project Scientist for SCUBA-2.
- 2003 Member of the Cycle 13 *Hubble Space Telescope* Peer Review Panel.
- 2003–2006 Member of the PPARC ALMA Oversight Committee.
- 2003–2004 International Referee for Subaru Telescope TAC.
- 2003 Member of the SOC for “*Multiwavelength Mapping of Galaxy Formation and Evolution*” ESO/MPA Conference, Venice.
- 2003 Chair SCUBA-2 Software Preliminary Design Review.
- 2004–2008 Member of the PPARC *JWST*-MIRI Oversight Committee.
- 2004–2007 Member of the PPARC Observational Astronomy Grants Panel.
- 2004 Member of the SOC for “*The Role of Mergers and Feedback in Galaxy Evolution*” Workshop, Ringberg.
- 2004–2005 Member of the JCMT Survey Steering Group.
- 2005–2007 Reviewer for Royal Society Short Visit and Conference Grants.
- 2005 Member on Cycle 2 *Spitzer Space Telescope* Peer Review Panel.
- 2005 Member of the JCMT International Review Panel.
- 2005 Session organiser, National Astronomical Meeting, Birmingham.
- 2005–2008 Member of the Royal Society Conference and Short Visit Grants Panel.
- 2006 Member of the SOC for “*Galaxy Evolution across the Hubble Time*” Symposium # 235, IAU Conference, Prague.
- 2006 Co-chair of the LOC for the “Cosmic Frontiers” Conference, Durham.
- 2006 Chair of ad-hoc JCMT Panel on Commissioning.
- 2006 Member of the ASTRONET EU FP6 ERA-Net.
- 2006–2007 Reviewer for the STFC Fellowships Panel.
- 2007–2010 Member of the STFC Astronomy Grants Panel.
- 2007 Member of the Scientific Organising Committee for the “*Galaxy Growth in a Dark Universe*” Conference, Heidelberg.
- 2007 Member of the Scientific Organising Committee for the “*Gas Accretion and Star Formation in Galaxies*” Conference, Munich.
- 2007 Chair of the SCUBA-2 Commissioning Plan Review Panel.
- 2007 International referee for Subaru Telescope TAC.
- 2007 Expert external reviewer for STFC Project Peer Review Panel.
- 2007 Member of the SCUBA-2 Advanced Data Product Review Panel.
- 2007 Member of the STFC Far-IR and Submm Advisory Panel.
- 2007 External advisor for the 2008 National Astronomy Meeting SOC.
- 2007–2008 Member of the JCMT International Time Allocation Panel.
- 2007–2010 Member of the JCMT Time Allocation Panel.
- 2007–2013 Member of the STFC ALMA Oversight Committee.
- 2008–2010 Member of the VLA/VLBA Referee Panel.
- 2009 Advisor to the ESO Observing Programme Committee.
- 2010 Member of the Physical Sciences Grants Panel of the Norwegian Research Council.
- 2011 Member at Large on the ESO Observing Programme Committee.
- 2011–2012 Deputy Chair of the STFC Astronomy Grants Panel.
- 2011 Member of the LOC for the “*Galaxy Formation*” Conference, Durham.
- 2012 Member of the SOC for the “*The intriguing life of massive galaxies*” Conference, IAU, Beijing.
- 2012–2013 OPC Panel member of the ESO Observing Programme Committee.
- 2014–2016 Chair of the STFC Astronomy Grants Panel.
- 2014 Member of the “*France–Europe 2020*” Panel for the French Agence Nationale de la Recherche.
- 2014–2017 Associate Editor, Royal Society Open Science journal.

- 2014** External panel member for Chair interviews, Dept. Physics, Lancaster University
- 2014–2018** UK member of the ESO Scientific Technical Committee (STC).
- 2014–2018** Member of the European ALMA Science Advisory Committee (ESAC).
- 2014–2018** Member of the UK ESO Committee.
- 2014–2018** Member of the UK E-ELT Oversight Committee.
- 2014–2018** Member of the UK ALMA Oversight Committee.
- 2014–2018** Member of the UK Optical/Near-infrared Users Committee.
- 2015–2019** Deputy Chair, ESO Scientific Technical Committee (STC).
- 2015–2017** Chair of the Physics Advisory Panel, Jeremiah Horrocks Institute, University of Central Lancashire
- 2017** Chair of the LOC “*SMG20 – Twenty years of Submillimetre Galaxies: Star-forming galaxies at high redshifts*” Conference, Durham.
- 2016** Member of Strategic Advisory Panel for the Institute of Cosmology & Gravitation, University of Portsmouth
- 2017** Vice-chair of the Strategic review of Radio Astronomy, STFC
- 2019–2025** Member of the International Visiting Panel, MPIA, Heidelberg.
- 2021–2022** Member of the Physics sub-panel (SP8) of the UK Research Excellence Framework (REF) 2020.
- 2021–2023** Member of the UK SKA Programme Board.

In addition, I act as a referee for Nature, Science, MNRAS, ApJ, A&A and AJ. I have been a panel member or external reviewer for the Canadian Gemini, CFHT, J/VLA, *HST* and Subaru TACs. I have performed grant/fellowship assessments for the Canadian, Norwegian, Italian, French, Dutch, Swiss, Chilean, Cypriot, Russian, South African, UAE, Serbian and Swedish national funding bodies (NSERC, FRINAT, INAF, CNRS/ANR/PRFP, NWO, SNF, FONDECYT, RPF, NRF, SFRS and SNSA respectively), and for the European Research Council, Royal Society, Royal Astronomical Society, Leverhulme, European Science Foundation, Guggenheim, Branco-Weiss, Alexander von Humboldt and United States-Israel Binational Science foundations. I have provided formal opinions on tenure hires and promotions at the Universities of Cambridge, Nottingham, Northumbria, Central Lancashire, Hertfordshire, Arizona, Haverford College, Rutgers, Pennsylvania, UC San Diego, UCL, Wisconsin-Madison, EPFL, McMaster, the Australia Telescope National Facility, the US National Optical Astronomy Observatories, Caltech/NASA’s IPAC Center and the South African National Research Foundation.

#### **PhD Students (co/supervised)**

- 1998–2001** Dr. Kevin Pimbblet. “*Stellar populations of X-ray luminous clusters at  $z = 0.1$* ”. Senior Lecturer, Hull University.
- 1999–2002** Dr. Graham Smith. “*Gravitational lensing by X-ray luminous galaxy clusters*”. Reader, University of Birmingham.
- 2003–2005** Prof. Mark Swinbank. “*Mapping the dynamics, star-formation rates and chemical properties of galaxies with integral field spectroscopy*”. Professor, Durham University.
- 2005–2007** Prof. James Geach. “*Obscured activity and the role of environment on galaxy evolution at high redshift*”. Professor, University of Hertfordshire.
- 2007–2009** Dr. Julie Wardlow. “*The role of obscured activity in galaxy formation*”. Rutherford Fellow, Lancaster.
- 2009–2014** Dr. Alice Danielson. “*Gas, dust and stars in high-redshift galaxies*”. Science outreach coordinator, Exeter University.
- 2011–2015** Dr. James Simpson. “*ALMA studies of high-redshift starburst galaxies*”. Analyst, HSBC.
- 2015–2019** Dr. Stuart Stach. “*Surveys of ultraluminous activity in the distant Universe*”. UK Government position.
- 2016–2019** Dr. Anne Klitsch. “*ALMACAL: The Evolution of Gas and Dust in Galaxies Using ALMA Calibrator Observations*”. Postdoctoral researcher, DARK.
- 2017–2021** Dr. Ugne Dudzevičiūtė. “*The properties of massive star-forming galaxies*”. MPIA Fellow, Heidelberg.
- 2018–2022** Jack Birkin. “*The physics of dusty strongly star-forming galaxies at high redshifts*”. Postdoctoral researcher, Texas A&M.

I have also worked with David Gilbank (funded by my Leverhulme Trust Prize) and STFC-funded PDRAs: Jason Stevens, Bodo Zeigler, Michael Balogh, Kristen Coppin, James Geach, Yuichi Matsuda, John Stott, Yusei Koyama, Alex Karim, Alasdair Thomson, Chris Harrison, Alfie Tiley, Soh Ikarashi, and ERC-funded PDRAs Cheng-Jiun Ma, Chian-Chou Chen, Bitten Gullberg and Elizabeth Cooke.

## RESEARCH TOPICS

My research interests cover three areas in Extragalactic Astronomy: dust-obscured starburst galaxies; environmental influences on galaxy formation and gravitational lensing by galaxies and clusters of galaxies. I have worked in the latter two fields since the early 1990s, while my work on dust-obscured starburst began with the discovery of the submillimetre galaxy population in 1997. My refereed publications are roughly evenly divided between these three areas and I have supervised PhD students working in all three areas.

The NASA ADS database lists around 50,000 citations to my 500 refereed publications, with over 4,000 citations to my 34 first-author papers. 134 of my papers have been cited more than 100 times each, 37 of my papers are in the top 1% of most-highly-cited papers published at their time and my H-index is 119.

## GRANT INCOME

1993–1995 SERC, NATO Advanced Fellowship, £90 K (PI).

1994–1995 NASA, *ROSAT* award, \$9 K (PI).

1995–1995 Carnegie Foundation, Carnegie Fellowship, \$55 K (PI).

1995–1996 STScI, *HST* Cycle 6 award, \$24 K (PI).

1995–1998 PPARC, Visiting Fellows support, £13 K (co-I).

1996–2001 PPARC, Advanced Fellowship, £160 K (PI).

1996–2000 PPARC, Durham Extragalactic Astronomy rolling grant, £1,012 K (co-I).

1998–2001 PPARC, Visiting Fellows support, £19 K (co-I).

1998–2002 PPARC, Durham Extragalactic Astronomy rolling grant, £1,357 K (co-I).

1998–2000 British Council, Anglo-French Alliance grant, £15 K (co-PI).

1998–1998 Royal Society/Australian Research Council, Visit grant, £5 K (PI).

1998–2008 Royal Society, University Research Fellowship, £504 K (PI).

1998–2008 Royal Society, research expenses, £111 K (PI).

1999–2002 PPARC, PATT travel grant, £30 K (co-I).

2000–2003 PPARC, PDRA in Submillimetre Astronomy Standard grant £161 K (PI).

2001–2003 Leverhulme Trust, Phillip Leverhulme Prize Fellowship £50 K (PI).

2001–2003 DAIWA Trust, DAIWA Adrian Prize £15 K (co-I).

2001–2004 PPARC, Visiting Fellows support, £28 K (co-I).

2002–2004 PPARC, National Public Understanding of Science Large award, £80 K (co-I).

2002–2006 PPARC, Durham Extragalactic Astronomy rolling grant, £1,350 K (co-I).

2003–2005 PPARC, PATT travel grant, £35 K (co-I).

2004–2006 PPARC, National Public Understanding of Science Large award, £90 K (co-I).

2005–2007 PPARC, Visiting Fellows support, £30 K (co-I).

2006–2008 STFC, PATT travel grant, £38 K (co-I).

2008–2010 STFC, Visiting Fellows support, £40 K (co-I).

2009–2011 STFC, PATT travel grant, £40 K (co-I).

2005–2009 PPARC, Durham rolling grant, £2,092 K (co-I).

2008–2012 STFC, Durham Observational rolling grant, £2,450 K (co-I).

2011–2013 STFC, Visiting Fellows support, £56 K (co-I).

2011–2015 STFC, Durham Observational rolling grant, £2,716 K (PI).

2011–2013 Royal Society/Leverhulme Trust, RS/Leverhulme Senior Fellowship, £41 K (PI).

2012–2013 STScI, *HST* Cycle 12 award, \$104 K (co-I).

2013–2017 European Research Council, ERC Advanced Programme grant, £1,730 K (PI).

2013–2017 Royal Society, Wolfson Merit award, £75 K (PI).

2012–2014 STFC, PATT travel grant, £44 K (co-I).

2014–2016 STFC, Durham Consolidated grant, £7,409 K (PI).

2014–2015 STFC, Additional Funding – Durham Consolidated grant, £125 K

2017–2020 STFC, Durham Consolidated grant, £7,377 K (PI).