

Curriculum Vitae

Pedro Bernardino Lacerda Cruz

Born 27 March 1975, in Lisbon, Portugal

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Education

2005 Ph.D. in Astrophysics, Leiden University, the Netherlands. Advisor: Jane Luu
2000 Licenciado in Physics, University of Lisbon, Portugal
1993–1996 Instituto Superior Técnico, Lisbon, Portugal, Telecommunications Engineering

Employment

2016–2019 University Lecturer, Queen’s University Belfast
2013–2016 Max Planck Research Group Leader in Cometary Science, MPS, Germany
2011–2013 Michael West Research Fellow, Queen’s University Belfast
2009–2011 Royal Society Newton Fellow, Queen’s University Belfast
2006–2009 Postdoctoral Fellow, Institute for Astronomy, University of Hawaii, USA
2005–2006 FCT Postdoctoral Fellow, Coimbra University, Portugal
2002–2003 Teaching Fellow, Harvard University, USA
2000–2005 Promovendus, Leiden University, the Netherlands
1999 Researcher (BIC Grant), Lisbon Observatory, Portugal

Honours

2013 [Max Planck Research Group Leader](#)
2010 [Michael West Research Fellow](#)
2008 [Royal Society Newton International Fellow](#)
2005 [Portuguese FCT Postdoctoral Fellow](#)
2003 [Harvard-Smithsonian SAO Predoctoral Fellow](#)
1999 [Portuguese FCT Initiation Researcher BII Grant](#)

Professional Activities

- Scientific reviewer for the NASA Discovery Mission space exploration programme and for the NASA ROSES grant programme;
- Reviewer for peer-review scientific journals: Science, Astrophysical Journal Letters, Astrophysical Journal, Astronomical Journal, Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society, Planetary & Space Sciences, and Icarus. Co-reviewer for book “Pluto: Sentinel of the Outer Solar System” by Barrie W. Jones, Cambridge UP, 2010.

Teaching Qualifications and Experience

- Lecturer and coordinator of 1st year Mathematics, lecturer of Lab Physics, Computational Physics, and 2nd year Astronomy, Queen’s University Belfast, 2010, 2016-2019;
- Attendance of Postgraduate Certificate in Higher Education Teaching training at Queen's University Belfast, 2017-2019;
- Member of the Georg-August University School of Science (GAUSS) Göttingen, Germany and co-lecturer of Planetary Science course in 2015/2016;

- Teaching Fellow for [Astronomy 1](#), [Harvard University](#), USA, Spring Term 2003;
- Supervisor of level 4 summer student, Queen's University Belfast, 2012, 2016;
- Solar System Teacher at the [BEST](#) Summer School, Coimbra, Portugal, Jul 2005;
- Teacher at [HI STAR](#) Summer School for high-school students, Honolulu, USA, June 2008;
- STEPS (Science and Technology Experts in Primary Schools) Teacher at Christ the Redeemer Primary School, Dunmurry, Northern Ireland; December 2012.

Honours, Research Grants and Facility Awards

- 2019 Most Innovative Learning Experience Award nomination, QUB SU Education Awards;
- 2018 Most Inspirational Teaching Award nomination, QUB SU Education Awards;
- 2017 Royal Society APEX Award (as co-I; £100,000);
- 2014 ESO Large Programme (as PI; 48 nights on NTT La Silla);
- 2013 Max Planck Research Group (€750,000);
- 2013 Leverhulme Research Programme Grant (£150,000);
- 2010 Michael West Research Fellowship (£200,000);
- 2008 Royal Society Newton International Fellowship (£100,000);
- 2005 FCT (Portuguese Science Foundation) Postdoctoral Fellowship (€50,000).

Invited Review Lectures at Conferences

- AOGS 2014 Annual Meeting, Sapporo, Japan; Jul 2014;
Title: *"TNOs Are Cool", A Herschel Survey of the Outer Solar System.*
- UK National Astronomy Meeting, Manchester, UK; Mar 2012;
Title: *A Herschel Survey of the trans-Neptunian Belt.*
- ESO-Chile Workshop on Solar System & Minor Bodies, Santiago, Chile; Aug 2011;
Title: *Extreme and Extremely Tilted Objects.*
- European Planetary Science Congress 2010, Rome, Italy; Sep 2010;
Title: *Haumea as seen by the Herschel Space Observatory.*
- AOGS 2010 Annual Meeting, Hyderabad, India; Jul 2010; (could not attend the meeting)
Title: *Physical properties of small icy bodies from their rotational lightcurves.*
- RAS Meeting, Geological Society Lecture Theatre, Burlington House, London; Nov 2009;
Title: *The Dark Red Spot on Dwarf Planet Haumea.*
- Conference "Binaries in the Solar System", Steamboat Springs, Colorado; Aug 2007.
Title: *The abundance of contact binaries in the Kuiper belt.*

Outreach Highlights

- [BBC Ideas video](#) on "How medieval monks can reveal our universe's secrets", August 2019;
- Live TV interview about New Horizons flyby of Pluto, Sky News UK, 14 June 2015;
- Lecture and Q&A on Rosetta mission and Philae landing, Portugal, November 2014;
- Responsible for Astrophysics outreach at Queen's University Belfast, 2011-2013;
- Live interview with [Noel Thompson & Karen Patterson BBC Radio](#), 12 Mar 2013;
- Televised broadcast of NASA Deep Impact event (scientists panel; Portugal, Jul 2005).

Languages

Native: Portuguese; *Fluent:* English; *Good:* Dutch, Italian, French; *Basic:* German, Spanish