

Curriculum Vitae

Pedro Bernardino Lacerda Cruz

Born 27 March, 1975, in Lisbon, Portugal

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Current Appointment

Michael West Research Fellow

at the Astrophysics Research Centre of the Queen's University Belfast

Education

2005 Ph.D. Leiden University. promotor: Prof. Harm Habing, advisor: Jane Luu

2000 M.Sc. University of Lisbon, degree of Licenciado in Theoretical Physics

1993-1996 Instituto Superior Técnico, Lisbon, Portugal, Electrotechnical Engineering

Employment

2011– Michael West Fellow, Queen's University of Belfast

2009–2011 Royal Society Newton Fellow, Queen's University of Belfast

2006–2009 Postdoctoral Fellow, Institute for Astronomy, University of Hawaii

2005–2006 FCT Postdoctoral Fellow, Coimbra University

2000–2005 Promovendus (Graduate Student), Sterrewacht, Leiden University

1999 Initiation Researcher (BIC Grant), Lisbon Observatory

Honours

2010 Michael West Research Fellow

2008 [Royal Society Newton International Fellow](#)

2005 [Portuguese FCT Postdoctoral Fellow](#)

2003 [SAO Predoctoral Fellow](#), Harvard-Smithsonian Centre for Astrophysics

1999 [Portuguese FCT Initiation Researcher BII Grant](#)

Professional

- Scientific panel reviewer for the NASA Discovery Mission programme and NASA ROSES grant programme
- Reviewer for *Astronomical Journal*, *Astrophysical Journal*, *Astronomy & Astrophysics*, *Planetary & Space Sciences*, *Icarus*, and *Science*.
- Full member of the European Astronomical Society, the American Astronomical Society, the Portuguese Physical Society, and the Portuguese Astronomical Society.

Invited Talks

Binaries in the Solar System, Steamboat Springs, Colorado; Aug 2007.

Title: *The abundance of contact binaries in the Kuiper belt.*

RAS Meeting, Geological Society Lecture Theatre, Burlington House, London; Jan 2010.

Title: *The Dark Red Spot on Dwarf Planet Haumea.*

UCL Physics & Astronomy Seminar, University College London; Jan 2010.

Title: *The Frontier of Our Solar System*

AOGS 2010 Conference, Hyderabad, India; Jul 2010. Title: *Physical properties of small icy bodies from their rotational lightcurves* (could not attend the meeting)

European Planetary Science Congress 2010, Rome, Italy; Sep 2010. Title: *Haumea as seen by the Herschel Space Observatory*

Lund Observatory Astronomy Seminar, Lund, Sweden; Apr 2011.

Title: *Remarkable Kuiper Belt Objects*

ESO-Chile Workshop on Solar System & Minor Bodies, Santiago, Chile; Aug 2011.

Title: *Extreme and Extremely Tilted Objects*

Teaching Experience

- Co-lecturer in 2nd year undergraduate Astronomy at Queen's University Belfast, 2010
- Lecturer at [HI STAR](#) Summer Research Program in June 2008, Univ. Hawaii, USA
- Solar System Lecturer at the [BEST](#) Summer School, Jul 2005, Coimbra, Portugal
- Teaching Fellow for [Astronomy 1](#), Spring Term 2003, [Harvard University](#), USA.
- Tutor at the Leiden-Dwingeloo Astrophysics Summer School, 2001, Netherlands

Observing

Classical mode observing experience – Calar Alto: 3.5-m (LAICA), OAN1.52m – Mauna Kea: Keck (LRIS, HIRESb), Subaru (MOIRCS), IRTF (MIRSI), UH2.2m (TEK, OPTIC), UKIRT (UIST Spec) – La Palma: WHT (PFC, OSCA/INGRID), INT (WFC) – La Silla: NTT (EFOSC2), ESO2.2m (WFC, GROND), Danish 1.54m (DFOSC), Dutch 0.91m, SEST – Paranal: VLT (SINFONI)

Technical

Major programming languages, data reduction, plotting, and presentation software (Mathematica, IDL, bash, awk, sed, Fortran, C, C++, LaTeX, IRAF, SExtractor, POV-Ray, Kaleida Graph, Keynote, etc.)

Languages

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

Facility Income

Summary of my facility income as Principal Investigator. RCUK recognised income is totalled.

PI	Reference	Facility/ Institution	Timespan	Unit cost	Total (£)	Grant Period
P.Lacerda	w01an001	WHT/PFC	6 nts	£17,000/nt	£102,000	Feb-01
P.Lacerda	i01an001	INT/WFC	8 nts	£17,000/nt	£136,000	Feb-01
P.Lacerda	067.C-0012(B)	ESO 2.2/WFI	5 nts	£45,000/nt	£225,000	Apr-01
P.Lacerda	068.C-0490(B)	ESO 1.5D/DFOSC	3.9 nts	£45,000/nt	£175,500	Apr-01
P.Lacerda	068.C-0490(B)	ESO 1.5D/DFOSC	3.9 nts	£45,000/nt	£175,500	Apr-01
P.Lacerda	i01bn001	INT/WFC	4 nts	£17,000/nt	£68,000	Sep-01
P.Lacerda	068.C-0490(A)	ESO 2.2/WFI	4 nts	£45,000/nt	£180,000	Oct-01
P.Lacerda	w01bn003	WHT/PFC	3 nts	£17,000/nt	£51,000	Nov-01
P.Lacerda	H237Hb	Keck/HIRESb	1 nt			Feb-06
P.Lacerda	H199Hb	Keck	1 nt			May-07
P.Lacerda	UH-42B	UH2.24m	6 nts			Oct-07
P.Lacerda	UH-42C	UH2.24m	3 nts			Oct-07
P.Lacerda	UH-42D	UH2.24m	3 nts			Dec-07
P.Lacerda	UH-55A	Subaru/MOIRCS	1 nt			Apr-08
P.Lacerda	UH-55B	UH2.24m	3 nts			Jun-08
P.Lacerda	UH-50A	UH2.24m	1 nt			Mar-09
P.Lacerda	UH-50B	UH2.24m	5 nts			May-09
P.Lacerda	H299LA	Keck/LRIS	1 nt			Jul-09
P.Lacerda	384.C-0877(A)	ESO VLT/SINFONI	1 nt	£45,000/nt	£45,000	Mar-10
P.Lacerda	I/2010B/15	INT/WFC	4 nts	£17,000/nt	£68,000	Aug-10
P.Lacerda	MPI-85-9016	ESO 2.2/GROND	3 nts	£45,000/nt	£135,000	Aug-10
P.Lacerda	087.C-0167(A)	ESO VLT/SINFONI	1 nt	£45,000/nt	£45,000	Apr-11
P.Lacerda	087.C-0980(A)	ESO NTT/EFOSC2	4 nts	£45,000/nt	£180,000	Aug-11
P.Lacerda	088.C-0634(A)	ESO NTT/EFOSC2	3 nts	£45,000/nt	£135,000	Oct-11
TOTAL					£1,721,000	