

Dr. Vera Assis Fernandes

Founder, Manager & Scientific Consultant of Aventuras Planetárias/Planetary Adventures, Marvão, Portugal <https://www.aventurasplanetarias.pt/>

Visiting Researcher at Instituto Dom Luiz, Faculdade de Ciência, Universidade de Lisboa, Portugal

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EDUCATION

- 1999-2002 PhD. Marie Curie Fellow at the Victoria University of Manchester, England. Title: ^{40}Ar - ^{39}Ar age determination and petrography of lunar samples: Luna missions and meteorites.
- 2002 Summer Session Program International Space University at the California Polytech University in Pomona, California, USA
- 1996-1999 MSc. In Geochemistry, State University of New York at Albany, NY, USA. Title: Major- and minor-element analysis of Apollo 14 volcanic green glasses B, and petrogenic modeling of Apollo 14 green glasses A and B.
- 1993-1996 BSc. In Geology at Syracuse University, NY, USA
- 1989-1991 Associate in Applied Science (A.A.S.) in General Horticulture, State University of New York at Morrisville, NY, USA
- 1985-1988 Techno-Professional degree in Agriculture (Secondary School) Escola Secundária D. Dinis, Paia, Lisbon, Portugal

EMPLOYMENT

- 2023-present Self-Employed Lunar & Planetary Science Researcher and Educator. Founder & Manager of *Aventuras Planetárias/Planetary Adventures*, Marvão, Portugal
- 2021-2022 Horizontereignisg gUG – Unternehmerinnenzentrum, Berlin, Germany
- 2018-2020 Marie Skłodowska-Curie Individual Fellowship (EU project 749815 – XeMoon), University of Manchester, United Kingdom
- Since 2017 Research Fellow of the Instituto D. Luiz, University of Lisbon, Portugal
- 2015 - 2018 DFG- Research Fellow - Museum für Naturkunde, Berlin, Germany
- Since 2014 Research Associate – Centre for Earth Evolution and Dynamics (CEED), University of Oslo, Norway, and the New University of Lisbon, Portugal
- 2011 - 2013 DFG-ICDP Research Fellow - Museum für Naturkunde, Berlin, Germany
- 2010 - 2011 Post-Doc Institute of Physics, University of Bern, Bern Switzerland
- 2007 - 2009 Post-Doc Fellow of Berkeley Geochronology Center, Berkeley, CA, U.S.A.
- 2003 – 2007 Post-Doc Fellow of Fundação para a Ciência e a Tecnologia at Instituto Geofísico da Universidade de Coimbra and University of Manchester
- 1998 Research Assistant, State University of New York at Albany, NY, USA
- 1997-8 Graduate Assistant, State University of New York at Albany, NY, USA
- 1996-8 Teaching Assistant, State University of New York at Albany, NY, USA
- 1998 Research Assistant, Matrix Environmental Technologies, Inc. Orchard Park, NY, USA

- 1996 Research Assistant, Matrix Environmental Technologies, Inc. Orchard Park, NY, USA
- 1994 Project Assistant, Matrix Environmental Technologies, Inc. Orchard Park, NY, USA
- 1993-6 Geochemistry Laboratory Assistant, Syracuse University Syracuse, NY, USA

RESEARCH ACTIVITIES

- 2020-Present Co-Leader of Chang'e-5 samples research Consortium based at the State Key Laboratory of Lunar and Planetary Sciences, in the Macau University of Science and Technology (MUST).
- 2020-present Self-funded Lunar and Planetary Researcher
- 2014-present NASA Apollo sample Principle Investigator.
- 2012-2014 Co-Investigator on the L-DPEM study for in preparation of the ESA Lunar lander lead by the Finnish Meteorological Institute.
- 2011- 2012 Co-Investigator on the study for the L-DEPP instrument planned for the ESA Lunar Lander lead by the Finnish Meteorological Institute.
- Since 2011 Scientific Advisor for the in-situ Reflectron Time-of-Flight space, University of Bern, Switzerland
- 2010-13 NASA-LASER collaborator (PI Dr. N. Artemieva), Planetary Science Institute, Tucson, AZ, USA
- 2009–2010 Member of the Antarctic Search for Meteorites (ANSMET)
- 2007-2010 Co-Investigator of the C1XS instrument onboard ISRO Chandrayaan-1 lunar orbiter
- Since 2005 Member of Portuguese Committee for the International Polar Year (IPY)
- Since 2005 Co-Investigator of the MARS-XRD instrument in the payload of the Mars lander EXO-Mars, ESA-NASA (scheduled launch in 2018).
- 2004-5 Member of the Antarctic Search for Meteorites (ANSMET); First Portuguese person at the South Pole
- 1999-2006 Co-Investigator of the D-CIXS instrument in the payload of the SMART-1 spacecraft of ESA.

TEACHING EXPERIENCE

- 2021 Lua: corpo planetário de mono-placa, University of Lisbon, Portugal.
- 2019 Meteorites and Planetary Materials Lecture, University of Manchester, U.K.
- 2014 Workshop in Planetary Sciences at the Cadi Ayyad University, Marrakesh, Morocco.
- 2014 Course convener for “Earth and Moon as part of a planetary system”, Museum für Naturkunde-Berlin/Frei Universität-Berlin, Spring Term
- 2008 Co-organizer and lecturer, Graduate Seminar on Meteorites Organizer University of California at Berkeley, Autumn Term
- 2000-1 Demonstrator at the University of Manchester: Planetary Science and petrology
- 1996-8 Teaching Assistant for BSc. courses: Geochemistry, Tectonics, Igneous and Metamorphic Petrology, Field Methods and Stratigraphy, Physical Geology Laboratory, and Planet Earth, State university of New York at Albany, NY, USA.

STUDENT SUPERVISION

One PhD student – Royal Observatory of Belgium (2021-present)

Three PhD students – University of Bern (2011-2014; 2017-present) and University of Manchester (2011-present)

Four MSc. Student – University of Manchester (2004; 2018/19), Freie Universität, Berlin (2017/19)

Five BSc. Students – University of Coimbra (2003-4), University of Lisbon (2014/15) and Freie Universität-Berlin (2012)

AWARDS AND HONOURS

2010	Antarctica Service Medal
1996	Thomas Cramer Award, Outstanding Senior in Geology, Syracuse University
1995	Fay M. Merriam Award, Syracuse University
1994	Thomas Cramer Award, Outstanding Junior in Geology, Syracuse University

RESEARCH GRANTS

2018-2020	Marie Skłodowska-Curie Individual Fellowship (Horizon 2020 project No. 749815 – XeMoon) - University of Manchester, United Kingdom.	€186 000
2015-2018	German Science Foundation (DFG - FE 1523/3-1): Bridging the gap: Integrating soil particle and remote sensing analyses to constrain lunar mantle evolution.	€360 650
2014	Centre for Earth Evolution and Dynamics (CEED, University of Oslo, Norway, Research Fellow Grant.	€35 000
2011-2013	International Space Science Institute (ISSI) International Team (Leader): Updating the lunar chronology and stratigraphy: new laboratory and remote sensing data, and new approaches to the interpretation of old data.	CHF26 000
2011 - 2013	German Science Foundation (DFG - FE 1211/1-2): The petrology, geochemistry and age determination of impact melt from the USGS-ICDP drill core Eyreville-B into the late Eocene Chesapeake Bay impact structure.	€250 000
2010-2013	NASA-LASER Collaborator of project lead by Dr. N. Artemieva, Planetary Science Institute; Impact ejecta on the Moon and beyond - numerical modeling and comparison with lunar samples.	
5/2010	EU Integrated Activities grant: SYNTHESYS	€2 000
2008-2012	NASA-LASER Collaborator of project by Dr. B. Weiss, MIT	(\$355 000)
2005-2008	PPARC Visiting Researcher of the Isotope Cosmochemistry and Geochemistry Group, School of Earth, Atm., and Environ. Sciences, Univ. of Manchester, U.K.	£10,000
2004-2006	Royal Society Joint Project Grant under the Royal Society European Exchange Programme – a grant with the aim of promoting and furthering exchanges between scientists in the UK and other European countries.	£23,000
2003-2007	Post-Doc Fellowship from the Fundação para a Ciência e a Tecnologia, Portugal.	€132 130

SCHOLARSHIPS AND TRAVEL GRANTS

2003	Centre national d'études spatiales (CNES) grant, France
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2002	PhD grant, Fundação para a Ciência e a Tecnologia (Science and Technology Foundation; FCT), Portugal
2002	Museo de las Ciencias de Castilla-La Mancha grant, Spain
2002	ESA Scholarship Full Grant
2002	NASA-Ames Human Exploration and Development in Space (HEDS) Enterprise Grant, USA
2002	ESA Travel Grant
2001	Brian Mason Award, Meteoritical Society, USA
2001	ESA Travel Grant
2000	ESA Travel Grant
1999-2001	Marie Curie Doctoral Fellowship
1997	Graduate Assistant Scholarship at SUNY at Albany
1996	Teaching Assistant Scholarship at SUNY at Albany

PUBLIC OUTREACH GRANTS

2021	Projekt Tegel on “Planetology: Exploring & Comparing Planets”, Horizonteraignis, Berlin Germany and Ciência Viva Portugal. Private donation	€60 000
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HONORARY POSITIONS

Since 2023	Gastwissenschaftlerin at Zentrum für Rieskrater- und Impaktforschung Nördlingen (ZERIN), Nördlingen, Germany
Since 2017	Visting academic at Instituto Dom Luiz, University of Lisbon, Portugal.
2018-2023	Gastwissenschaftlerin at the Museum für Naturkunde, Berlin, Germany
2014-2021	Research Scientists at Center of Earth Dynamics, University of Oslo
2013-2017	Research Scientist of UNINOVA Institute, New University of Lisbon
2004-2006	Honorary Researcher of the University College of London
2003-2023	Visiting Researcher at the University of Manchester

SERVICE TO THE SCIENTIFIC COMMUNITY

Grant Reviewer:

2017-present	European Commission FETOPEN RIA proposals
2017	NASA-SSW panelist
2015	NASA-NESSF14 research grant proposals
2014	NASA-NSPIRES

Journal Referee:

Acta Astronomica, American Mineralogist, Australian Journal of Earth Sciences
Comunicações Geológicas, Contributions to Mineralogy and Petrology, Earth and Planetary
Science Letters, Geochimica et Cosmochimica Acta, Geological Society of London,
Geosciences, Geostandards and Geoanalytical Research, Icarus, Journal of Geophysical
Research – Planets, and Meteoritical and Planetary Sciences, Science Magazine, Chemie der
Erde.

CONFERENCES AND WORKSHOPS ORGANISED

- 2022 Co-Chair of Forming and Exploring Habitable Worlds International Meeting and Member of the Scientific Steering Committee. November 7 – 13, 2022, Edinburgh, UK.
- 2020 Convener Planetary interior evolution and volcanism at XVIth Rencontres du Vietnam “Planetary Science: The Young Solar System” September 6 – 12, 2020, Quy Nhon, Vietnam.
- 2019 Initiator and Member of the Local and Scientific Organizing Committees of the “*The Moon as a ‘contact zone’ to other worlds: an interdisciplinary workshop*” Manchester, UK, 23rd-24th May, 2019.
- 2019 Member of the Local Organizing Committee of the 7th European Lunar Symposium, Manchester, U.K., 21-23 May, 2019.
- 2018 Session Co-Convener and Chair at the European Planetary Science Conference, Berlin, Germany, 16-21 Sep, 2018.
- 2017 Convener and Chair at the Goldschmidt Conference, Paris, France August 13-18, 2017.
- 2016 Convener and Chair at the Goldschmidt Conference, Yokohama, Japan, June 26 - July 1, 2016
- 2015 Co-organiser of Pre-meeting workshop “The first 1 billion years of the Solar System”, Meteoritical Society-Berkeley July 25-26, 2015
- 2013 Organiser and Leader of International Space Science Institute (ISSI) International, Team meeting 5-7 August 2013, Bern, Switzerland
- 2012 Organiser and Leader of International Space Science Institute (ISSI) International Team meeting 7-11 May 2012, Bern, Switzerland
- 2011 Organiser and Leader of International Space Science Institute (ISSI) International Team meeting 24-26 October 2011, Bern, Switzerland
- 2010 Organising committee for the session on Protecting the Lunar and Martian Environments for Scientific Research at the COSPAR Conference, 18-25 July
- 2010 Scientific Committee for the 2nd Portuguese Meeting on Polar Sciences, 26 Apr 2010
- 2009 Session Co-Convener and Chair Goldschmidt Conference, Davos, Switzerland, 21-26 Jun 2009
- 2008 Session Co-Convener and Chair Goldschmidt Conference, Vancouver, Canada, 13-18 Jul 2008
- 2006 Session Co-Convener and Chair European Planetary Science Conference, Berlin, Germany, 18-22 Sep 2006
- 2006 Session Co-Convener and Chair at the EGU-Vienna, Austria, 2-7 Apr 2006.
- 2006 Session Chair at the 37th Lunar and Planetary Sciences conference, Houston, USA, 13-17 Mar 2006
- 2005 SMART-1 mission (ESA) Science working team meeting and Public outreach events, Coimbra, Portugal, 30 Sep – 5 Oct 2005

INVITED LECTURES

- 2020 Macau University of Science and Technology, Macau, China (postponed to 202x).
- 2020 Royal Astronomical Observatory, Brussels, Belgium (postponed to 202x).
- 2019 Bayerisches Geoinstitut, Universität Bayreuth, Bayreuth, Germany

- 2019 Keynote speaker at the XVth Rencontres du Vietnam, LIFE3E'2019: SEARCH FOR LIFE, FROM EARLY EARTH TO EXOPLANETS, 25th – 29th March, 2019, Quy Nhon, Vietnam
- 2018 Chinese Academy of Sciences, Beijing, 30 Oct. 2018
- 2018 Nanjing University, Nanjing, China, 25 Oct. 2018
- 2018 Guilin University of Technology, Guilin, China, 16 Oct. 2018
- 2018 University of Cologne, Institute for Geology and Mineralogy, 17 Jan. 2018.
- 2017 Technical University of Freiberg, Dept. Geology, 14 Dec. 2017
- 2017 3rd Beijing International Forum on Lunar and Deep Space Exploration, 19-22 Sep. 2017.
- 2017 ETH-Zürich, Department of Earth Sciences, Institute of Geochemistry and Petrology, 1 Sep. 2017.
- 2015 Max Planck Institute for Solar System Research, Univ. Göttingen, 3 Sep. 2015.
- 2015 Geosciences Department, University of Lisboa, Portugal, 1 Jun 2015.
- 2014 Nordic Network for Astrobiology General meeting at the Centre of Geobiology, University of Bergen, Norway. Conference on Biosignatures across space and time (Solicited speaker), 21 May 2014.
- 2014 Centre for Earth Evolution and Dynamics (CEED), University of Oslo, Norway, 6 May 2014.
- 2013 Department of Earth Sciences, Syracuse University, U.S.A., 26 March 2012.
- 2012 European Lunar Science Symposium (Keynote speaker), Berlin, Germany, 19 Apr 2012.
- 2011 Museum für Naturkunde-Berlin, Germany, 8 Jun 2011.
- 2010 Physics Institut, Univ. Bern, Switzerland, 2 Jun 2010.
- 2010 Museum für Naturkunde, Berlin, Germany, 29 May 2010.
- 2009 Institute of Earth Sciences, Vrije Universiteit, Amsterdam, The Netherlands. 23 Jan 2009.
- 2008 Lunar and Planetary Institute, Houston, Texas, USA, 1 Feb 2008.
- 2008 Dept. Earth and Planetary Science, Univ. California at Berkeley, Berkeley, California, USA, 30 Jan 2008.
- 2007 John de Laeter Centre of Mass Spectrometry at the Department of Applied Geology, Curtin University of Technology, Perth, Australia, 30 Jan 2007.
- 2006 Museum für naturkunde, der Humboldt- Universität zu Berlin, Germany, 20 Dec 2006.
- 2006 Institut für Planetologie, Westfälische Wilhems-Universität Münster, Germany, 27 Nov 2006.
- 2006 Royal Astronomical Society meeting, Solar-System Exploration by Spacecraft and by Sample Analysis. London, United Kingdom, 10 Nov 2006.
- 2006 Geological Institute, University of Copenhagen, Denmark, 28 Sep 2006.
- 2006 Chautauqua Short Courses, Northern Arizona University, Flagstaff, Arizona, USA, 18 Jun 2006
- 2006 Department of Earth Sciences, Univ. Coimbra, Portugal, 19 May 2006.
- 2006 Department of Mathematics and Astronomy at University of Coimbra, Portugal, 2 Feb 2006
- 2004 Danish Lithospheric Centre in Copenhagen, Denmark, 7 Apr 2004.
- 2001 Department of Mineralogy, Division of Meteoritics and Cosmic Mineralogy Division at the Natural History Museum, London, UK, 5 Dec 2001.

PUBLIC OUTREACH

- 2024 – Entrevista para o jornal *Baluarte*, Vila do Porto, Santa Maria.
- 2024 – Entrevista para a *Rádio ASAS do Atlântico*, Vila do Porto, Santa Maria.
- 2024 – ‘Semana Mundial do Espaço’, Governo Regional dos Açores, palestras em escolas das ilhas Corvo, São Jorge e Santa Maria e ao público geral.
- 2024 – ‘Aventura planetárias’ – Agrupamento de Escolas de Nisa
- 2024 – ‘Aventura planetárias’ – Agrupamento de Escolas de Santa Cruz da Trapa
- 2023 “Espaço vai à Escola”, October-November 2023, at different schools across Portugal.
- 2023 “Lua: biblioteca de informação com 4500+ milhões de anos”, in *Hackthon de Professores do Espaço 2023: Regresso à Lua*. Vila do Porto, Santa Maria, Açores (10-14 Julho).
- 2022 “Espaço vai à Escola”, October-November 2022, at different schools across Portugal.
- 2022 Lunar Exploration Workshop Panel at the Summer Space Festival, Brussels, Belgium. <https://summerspacefestival.fr/en>
- 2022 Aventuras Planetárias/Planetary Adventures/Planetare Abenteuer at: Temple-Grandin-Schule and KreativitätsGrundschule Berlin-Karlshorst, Berlin, Germany.
- 2022 Aventuras Planetárias/Planetary Adventures/Planetare Abenteuer at: Agrupamento de Escolas de Elvas, Vila Boim (6th and 7th Grades).
- 2022 Aventuras Planetárias/Planetary Adventures/Planetare Abenteuer at: Agrupamento de Escolas de Castelo de Vide (7th and 9th Grade).
- 2021 Aventuras Planetárias/Planetary Adventures/Planetare Abenteuer at: Agrupamento de Escolas de Corroios (9th Grade), Escola Básica Paruque das Nações (4th Grade), and Escola Básica Vasco da Gama (1st and 2nd Grade).
- 2021 Interview for Observador Rádio programme “Convidado extra”.
- 2020 Ciência Viva, Portugal. 7^a Conferência de Professores Espaciais - Convite - Painele "O que há de novo no sistema solar?"
- 2020 Ciência Viva, Portugal. “Step into Space” itinerant exhibit in partnership with Space.eu, HORIZON2020.
- 2020 Shuttleworth College, Burnley, Lancashire, UK (106 10th graders): Hunting for meteorites in the Antarctic Plateau: La Paz icefields 2004/5 and Miller Range 2009/10. Lecture and meteorites specimen presented.
- 2019 British Science Festival, Coventry. Presentation of “The Moon is NOT ours” in the session “Have we given up on the future?” organized by Dr. Alex Ball.
- 2019 Interview for the newspaper “Jornal i” on the Chang’e-4 landing on the lunar farside, 5th January, 2019, Lisbon, Portugal
- 2019 Interview at the RTP2 Evening news on the Chang’e-4 landing on the lunar farside, 3rd January, 2019, Porto, Portugal
- 2018 Lecture at the 5th Conference “Professores Espaciais” in Lisbon, Portugal, for all school levels teachers. Sponsored by ESERO. 28-29th September 2018.
- 2018 “Bluedot” Festival part of the Cosmochemistry Research Group booth at the festival. 20th July, 2018.
- 2018 Interview for 2 episodes of ARTE channel documentary “Mensch und Mond” aired in January 2019, and available online: <https://www.arte.tv/en/videos/078691-001-A/man-and-moon-1-3/>
- 2015 Hunting for meteorites in the Antarctic Plateau 2009-10 and La Paz icefields 2004-5 Miller Range 2009/10, Comenius-Schule, Berlin, 16 Oct 2015.

- 2013 Interview for the Portuguese Radio Station Antena 1 on the Ural meteor fall, Chelyabinsk meteorite, 15 Feb 2013.
- 2012 Interview for the “Mais Alentejo” regional magazine, 15 Dec 2012
- 2012 “À Caça de meteoritos no planalto Antártico e montanhas Trans-Antarcticas” at Escola Sec. Emídio Navarro, Almada, Portugal, 9 Jan 2012.
- 2010 Interview for the Portuguese weekly newspaper Expresso and the online SIC-channel (TV channel) regarding my participation on the ANSMET2009-10, 13 Mar 2010.
- 2010 Interview for the Portuguese daily newspapers the daily Correio da Manhã regarding my participation on the ANSMET2009-10, 15 March 2010
- 2009 Lectures: “À Caça de meteoritos no planalto Antártico” at the National of Natural History of the University of Lisbon, Portugal, 14 April 2009.
- 2008 Participation in the collaboration between the Portuguese Committee for the International Polar Year and the Portuguese Postal Service in the elaboration of the 2008 Calendar Book (sold for the public), Aug 2008.
- 2007 Lecture for three schools from the County of Odivelas, Portugal integrated in the activities of the Portuguese Committee for the International Polar Year (IPY): How to search for meteorites in the Antarctic plateau, 13 Jun 2007
- 2006 Interview for Portuguese Radio Station Antena 1 and the newspaper Diário de Notícias for the theme of the “crash” of the ESA mission SMART-1, Sep 2006
- 2006 Two lectures at the School of Gavião, Portugal for students in the age range of 11 and 15 years. One lecture in the Town Hall of Portalegre, Portugal for school students of the city during the celebration of World Children Day: How to search for meteorites in the Antarctic plateau, May 2006
- 2006 Interview for the magazine Visão, a weekly portuguese opinion magazine, Jan 2006.
- 2005 Organized SMART-1 event at the University of Coimbra and Argoselo, Portugal with mission’s Science and technical Teams
- 2005 Lecture: À Caça de meteoritos no planalto Antártico. At the Lisbon Oceanário, Sep 2005
- 2005 Lecture: À Caça de meteoritos no planalto Antártico. At the Lisbon Geographic Society, June 2005
- 2005 Interview for the magazine Pública, an insert on the Sunday issue of the Portuguese newspaper Público, June 2005.
- 2005 Interview for the Portuguese National Geographic regarding my recent participation on the ANSMET expedition to Antarctica, Apr 2005.
- 2005 Interview for the Univ. of Coimbra newspaper, A CABRA, regarding participation on the ANSMET expedition to Antarctica, Feb 2005
- 2005 Two interviews for the Portuguese national radio (RDP) regarding participation on the ANSMET expedition to Antarctica, Feb 2005
- 2005 Two interviews for the Portuguese national television (RTP) regarding participation on the ANSMET expedition to Antarctica, Feb 2005.
- 2004 Lecture: Aspectos Éticos e Sociais de um possível retorno à Lua – uma perspectiva Geológica. At Arte-Ciência meeting organised by the Univ. of Azores at Angra do Heroísmo, June 2004
- 2004 Review of chapters of book: Como respiram os astronautas: e outros problemas de física biomédica, by Prof. Manuel Paiva of the Free University of Brussels, May 2004.
- 2003 Collaboration with Miguel Almeida, ESA, for Portuguese website Portal do Astrónomo, http://www.portaldoastronomo.org/tema_17.php, Sep 2003.

- 2003 Poster: D-CIXS Detecção remota de raios-X reflectidos da superfície da Lua para o estudo da sua composição química. For the event to celebrate the launch of the ESA mission to the Moon SMART-1. Organised by Planetário Calouste Gulbenkian, Sep 2003
- 2003 Interview for the portuguese newspaper Diário de Notícias on the SMART-1 mission and lunar science, Aug 2003.
- 2003 Interview for the portuguese FOCUS magazine on the SMART-1 mission and lunar science, Aug 2003.
- 2003 Lecture: O Sistema Solar: um lugar incrivelmente diverso. Organised by the Physics/Astronomy student organisation at the University of Coimbra, Apr 2003.
- 2003 Lecture: O Sistema Solar: um lugar incrivelmente diverso. Organised by NUCLIO at the Biblioteca República e Resistência, Jan 2003
- 2002 Popular Science article, Northwest Africa 032: a young lunar basalt, Published in the Magazine Meteorite.

SPECIAL SKILLS

⁴⁰Ar-³⁹Ar Mass-Spectrometry, Scanning-Electron Microscopy (SEM), Electron Microprobe geochemical analysis (EMPA); use of geochemical clean-lab (Sr-Nd column chemistry including column calibration); familiar with Thermal Ionization Mass Spectrometry; familiar with X-Ray Fluorescence; familiar with X-Ray Diffraction, and familiar with the use of LA-ICP-MS.

COMPUTER SKILLS

Microsoft Office Package, Mass-Spec, Origin, iSpec application for Igor-Pro.

MEMBERSHIPS

Committee on Space Research (COSPAR)

OTHER ACTIVITIES

- 2017-18 Member of the Women Council Team at the Museum für Naturkunde, Berlin, Germany.
- 2015 Collaboration in the art exhibit titled "Dead wasps fly further" produced by Dr. Tahani Nadim and artist Åsa Sonjasdotter.
- 2004 First Portuguese at the South Pole (December 13th).
- 2003-6 Simultaneous contacts with the Portuguese Minister of Science and Technology, the Vice-rector for research at the University of Coimbra, and the President of the main research funding Agency (Fundação para a Ciência e a Tecnologia – FCT) for the improvement of the situation of the Post-Docs (e.g. work conditions, recognition of the post-docs existence in the institutions) in Portugal.

PUBLISHED ARTICLES

- [45] Werner, S. C., Bultel B., Rolf T. and **Assis Fernandes V.** (2022) Orientale Ejecta at the Apollo 14 Landing Site Implies a 200-million-year Stratigraphic Time Shift on the Moon. *Planet. Sci. J.* 3, 65. <https://iopscience.iop.org/article/10.3847/PSJ/ac54a6>
- [44] Fritz J., Greshake A., Klementova M., Wirth R., Palatinus L., Trønnes R.G., **Assis Fernandes V.**, Böttger U. and Ferrière L. (2020) Donwilhelmsite, $[(Ca_xNa_{1-x})Al_{3+x}Si_{3-x}O_{11}]$, a new lunar high-pressure Ca-Al-silicate with relevance for subducted terrestrial sediments. <https://doi.org/10.2138/am-2020-7393>
Green-Open Access:
https://www.research.manchester.ac.uk/portal/files/174917589/Fritz_et_al_2019MPS_diaplectic_glass_AAM.pdf
- [43] Fritz J., **Assis Fernandes V.**, Greshake A., Holzwarth A. and Böttger U. (2019) On the formation of diaplectic glass: Shock and thermal experiments with plagioclase of different chemical compositions. *Meteoritical and Planetary Science* 54, 1533-1547. <https://doi.org/10.1111/maps.13289>
Green-Open Access:
https://www.research.manchester.ac.uk/portal/files/174917589/Fritz_et_al_2019MPS_diaplectic_glass_AAM.pdf
- [42] **Assis Fernandes V.**, Hopp J., Schwarz W.H., Fritz J.P., and Tieloff M. (2019) ^{40}Ar - ^{39}Ar step heating of North American tektites and of impact melt rock samples from the Chesapeake Bay impact structure. *Geochimica et Cosmochimica Acta* 255, 289-308. <https://doi.org/10.1016/j.gca.2019.03.004>
Green-Open Access:
https://www.research.manchester.ac.uk/portal/files/174917078/Assis_Fernandes_GCA_2019_AAM.pdf
- [41] Fritz, J., Greshake, A., Klementova, M., Wirth, R., Palatinus, L., **Assis Fernandes, V.**, Böttger, U. and Ferrière, L. (2019) Donwilhelmsite, IMA 2018-113. *CNMNC Newsletter* No. 47, February 2019, page 201; *European Journal of Mineralogy*, 31: 199–204.
Open Access:
https://www.schweizerbart.de/papers/ejm/detail/31/90540/IMA_Commission_on_New_Minerals_Nomenclature_and_CI?af=crossref
- [40] Amelin Y., Koefoeda P., Izukab T., **Fernandes V.A.**, Huyskens M.H., Yin Q.-Z., Irving A.J. (2019) U-Pb age and extant radionuclide systematics of the ungrouped achondrites NWA 6704 and NWA 6693. DOI: 10.1016/j.gca.2018.09.021
Green-Open Access:
https://www.research.manchester.ac.uk/portal/files/82721323/GCA_D_17_00805R2_AAM.pdf
- [39] **Assis Fernandes V.** (2019) Ethical and Social aspects of a Return to the Moon – A Geological perspective. *Geosciences* 2019, 9(1), 12.
Open Access: <https://doi.org/10.3390/geosciences9010012>
- [38] Schiller M., Bizzarro M. and **Assis Fernandes V.** (2018) Isotopic evolution of the protoplanetary disk and the building blocks of Earth and the Moon. *Nature* 555, 507–510. doi:10.1038/nature25990
Open Access:
<http://europepmc.org/backend/ptpmcrender.fcgi?accid=PMC5884421&blobtype=pdf>

- [37] Fritz J. P., Greshake A. and **Fernandes V. A.** (2017) Revising the shock classification of meteorites. *Meteor. and Planet. Sci.* 52, 1-17. DOI: 10.1111/maps.12845
Green-Open Access:
https://www.research.manchester.ac.uk/portal/files/84778688/Fritz_et_al_MaPS_2017_AAM.pdf
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Submitted

Assis Fernandes V., Artemieva N., Fritz J., Jutzi M. and Werner S.C. (*submitted Astrobiology*) The first 600 million years of Earth-Moon history: How spiky was the impact bombardment?

In preparation

Werner S.C., Bultel B., **Assis Fernandes V.** and Rolf T. (*in preparation EPSL*) Lunar Time Scale – A Critical Review and the Revision of Lunar Cratering Chronology

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