

CONTACT DETAILS

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RESEARCH INTERESTS

Neutron Stars: macroscopic quantum states, rotational and magnetic field evolution, pulsar glitches, pulsar population synthesis, laboratory analogues, superfluidity's impact on cooling, continuous gravitational-wave emission, precession

Machine Learning: deep / multi-modal / active learning for parameter estimation in astrophysics, simulation-based inference, deep learning for pulsar detection and classification, interpretability and insights into decision making of deep learning algorithms

Superfluidity: multi-fluid magnetohydrodynamics, mesoscopic vortex physics, Gross–Pitaevskii and Ginzburg–Landau-type models, phase transitions, superfluid helium, ultra-cold gases

ACADEMIC HISTORY

- **Future Leaders Fellow and Proleptic Senior Lecturer in Physics**, RHUL, Egham, UK (since Oct 2024)
- **Senior Lecturer in Data Science**, University of Hertfordshire, Hatfield, UK (Feb – Sept 2024)
- **Juan de la Cierva Incorporación Fellow**, Inst. of Space Sciences, Barcelona, ES (May 2022 – Feb 2024)
- **Senior Postdoctoral Researcher**, Institute of Space Sciences, Barcelona, ES (Jan 2020 – Feb 2024)
- **McGill Space Institute Fellow**, McGill University, Montréal, CA (Oct 2016 – Dec 2019)

EDUCATION

PhD, Mathematical Sciences, University of Southampton, UK (Sept 2016)

- *Advisor:* Prof. Nils Andersson
- *Thesis Title:* Cosmic Condensates – Vortex, Fluxtube and Neutron Star Dynamics

Diplom (MPhys), Physics, University of Tübingen, DE (Mar 2012)

- *Advisors:* Dr. Kostas Glampedakis, Prof. Kostas Kokkotas
- *Major, Minor:* Astronomy & Astrophysics, Quantum Optics
- *Thesis Title:* Dynamics of Superfluid Neutron Stars

RESEARCH EXPERIENCE

Future Leaders Fellow and Proleptic Senior Lecturer in Physics, RHUL, Egham, UK (since Oct 2024)

- Principal Investigator of Future Leaders Fellowship grant
- Simulation-based inference for pulsar glitches in the Square Kilometre Array era
- Exploring laboratory condensates as analogues for cosmic superfluidity
- Development of reproducible, open-source scientific software tools

Senior Lecturer in Data Science, University of Hertfordshire, Hatfield, UK (Feb – Sept 2024)

- Sequential simulation-based inference approaches for pulsar population synthesis
- 3D computational fluid dynamics simulations of neutron star interiors

Juan de la Cierva Incorporación Fellow, Inst. of Space Sciences, Barcelona, ES (May 2022 – Feb 2024)

- *Advisor:* Dr. Nanda Rea
- Macroscopic and mesoscopic magnetic field evolution approaches for neutron star interiors
- Ginzburg–Landau models for magnetic flux distributions in superconducting neutron star cores

RESEARCH EXPERIENCE (CONTINUED)

Senior Postdoctoral Researcher, Institute of Space Sciences, Barcelona, ES (Jan 2020 – Feb 2024)

- *Advisor*: Dr. Nanda Rea
- Leading the *Pulsar Population Synthesis* work package for the ERC project [MAGNESIA](#)
- Developing a new population synthesis framework for isolated pulsars in Python
- Implementing neural networks for population synthesis including simulation-based inference
- Multi-wavelength analyses and simulations of ultra-long period radio pulsars

McGill Space Institute Fellow, McGill University, Montréal, CA (Oct 2016 – Dec 2019)

- *Advisors*: Prof. Andrew Cumming, Prof. Vicky Kaspi
- Working at the interface of astrophysics and condensed-matter physics
- Developing macroscopic models for pulsar glitches with consistent crustal microphysics
- Bayesian approaches for astrophysical parameter inferences

Doctoral Researcher, General Relativity, University of Southampton, UK (Oct 2012 – Aug 2016)

- *Advisor*: Prof. Nils Andersson
- Superfluid and superconducting neutron star core physics
- Generalised magneto-hydrodynamics models for superconducting neutron star interiors
- Analysing terrestrial quantum condensates as versatile neutron star analogues

Undergraduate Researcher, Theor. Astrophysics, University of Tübingen, DE (Mar 2011 – Mar 2012)

- *Advisors*: Dr. Kostas Glampedakis, Prof. Kostas Kokkotas
- Modelling the post-glitch response based on viscous, magnetic and mutual friction coupling

Intern, Inst. of Planetary Research, German Aerospace Center (DLR), Berlin, DE (July – Aug 2009)

- *Advisor*: Dr. Ute Böttger
- Recording and analysing Raman spectra of rock samples to assess spectrometer stability
- Developing criteria for a database of Mars analogue material

Undergraduate Researcher, Solid State Physics, University of Tübingen, DE (June 2009 – Dec 2010)

- *Advisor*: Prof. Thomas Dahm
- Conformal mapping to determine magnetic field distributions of rectangular superconductors

Intern, EADS Astrium GmbH (now Airbus Defence & Space), Friedrichshafen, DE (Aug – Sept 2006)

- *Advisor*: Dr. Achim Seidel
- Calculating the Earth's magnetic field to study its influence on atomic clocks on satellites

VISITING SCIENTIST POSITIONS

- **Sept 2019**: Aspen Center for Physics, Aspen, Colorado, US
- **Nov – Dec 2018**: OzGrav Visitor, Monash University / University of Melbourne, AU
- **Jan & Apr 2018**: School of Mathematics, Statistics and Physics, Newcastle University, UK

RESEARCH GRANTS, FELLOWSHIPS, AND SCHOLARSHIPS (£2,504,500 IN TOTAL)

- **Oct 2024 – Sept 2028**: *Future Leaders Fellowship*, UK Research and Innovation, UK; £2.18M (PI)
- **May 2022 – Apr 2025**: *Juan de la Cierva Fellowship*, Agencia Estatal de Investigación, ES; £85,000 (PI)
- **Apr 2023 – Dec 2024**: *SGR-Cat 2021*, Generalitat de Catalunya, ES; £53,000 (PI)
- **Oct 2016 – Aug 2019**: *McGill Space Inst. Postdoctoral Fellowship*, McGill Space Inst., CA; £115,000 (PI)
- **Jan 2013 – Dec 2015**: *PhD Scholarship*, Evangelisches Studienwerk e.V. Villigst, DE; £40,000 (PI)
- **Oct 2012 – Sept 2015**: *Vice Chancellor Scholarship*, University of Southampton, UK; £18,500
- **Nov 2012 – Oct 2013**: *PhD Scholarship*, German Academic Exchange Service (DAAD), DE; £13,000 (PI)

PERSONAL AWARDS AND TRAVEL GRANTS (£4,200 IN TOTAL)

- **July 2019:** *Travel grant* for the [69th Lindau Nobel Laureate Meeting](#) dedicated to Physics, CA; £2,200 (nominated by Nobel Laureate Dr. Arthur McDonald and selected in a worldwide competition)
- **July 2019:** *First Poster Prize*, voted by the participants of the 69th Lindau Nobel Laureate Meeting, DE
- **Nov – Dec 2018:** *International Visitor Grant*, [OzGrav](#), AU; £2,000
- **June 2015:** *Best Student Talk Prize*, Annual NewCompStar Conference, Budapest, HU
- **Mar 2015:** [SET for BRITAIN](#) *finalist*, poster competition in the UK Parliament, London, UK

INVITED COLLOQUIA, SEMINARS, AND TALKS (34 IN TOTAL)

- **May 2025:** *Talk*, ECT* Workshop, Trento, IT
- **March 2025:** *Gravity Seminar*, University of Southampton, UK
- **March 2025:** *Particle Physics and Astronomy Seminar*, RHUL, UK
- **Jan 2025:** *Webinar*, UK Quantum Fluids Network, UK
- **Jan 2025:** *Panelist*, GW Analysis in the Era of ML, RAS Specialist Discussion Workshop, London, UK
- **July 2024:** *Plenary Talk*, General Meeting, Spanish Astronomical Society, Granada, ES
- **June 2024:** *Talk*, XMM-Newton 2024 Science Workshop, Madrid, ES
- **Nov 2023:** *Astrophysics Seminar*, Centre for Astrophysics Research, University of Hertfordshire, UK
- **Nov 2023:** *Astrophysics Seminar*, Institute for Astronomy, University of Tübingen, DE
- **Oct 2023:** *Geo/Astrophysical Fluid Dynamics Seminar*, University of Colorado Boulder, US (online)
- **June 2023:** *Seminar*, Physics, Royal Holloway, University of London, UK (online)
- **May 2023:** *Astronomy Seminar*, University of East Anglia, UK
- **July 2022:** *Seminar*, Fluid Dynamics, Newcastle University, UK (online)
- **May 2021:** *Talk*, Journal Club, CAMK, Warsaw, PL (online)
- **Mar 2021:** *Seminar*, Hadronic, Nuclear & Atomic Physics Group, University of Barcelona, ES (online)
- **Nov 2020:** *Talk*, Neutron Star Group Meeting, University of Southampton, UK (online)
- **Nov 2020:** *Webinar*, Fluids ECR Forum, University of Leeds, UK (online)
- **Nov 2020:** *Astronomy Seminar*, Stony Brook University, New York, US (online)
- **July 2020:** *Colloquium*, Research Training Group – Models of Gravity, Oldenburg, DE (online)
- **June 2020:** *Astrophysics Seminar*, IRAP, Toulouse, FR (online)
- **Feb 2020:** *Physics Colloquium*, Texas A&M Commerce, Texas, US
- **Apr 2019:** *Talk*, ICONS, JINA – CEE Workshop, University of Amsterdam, NL
- **Apr 2019:** *Talk*, Quantum Turbulence, INT Workshop, Seattle, Washington, US
- **Jan 2019:** *Talk*, Mini-Symposium on GWs and QCD, Goethe University, Frankfurt, DE
- **Nov 2018:** *Astrophysics Colloquium*, Swinburne University, Melbourne, AU
- **Nov 2018:** *Astrophysics Seminar*, University of Melbourne, AU
- **Nov 2018:** *Talk*, GW UniversityGroup Meeting, Monash University, Melbourne, AU
- **Apr 2018:** *Superfluid Seminar*, Newcastle University, UK
- **Apr 2018:** *MHD Seminar*, Durham University, UK
- **Mar 2018:** *Astrophysics Seminar*, McGill University, Montréal, CA
- **Jan 2018:** *Astrophysics Seminar*, Newcastle University, UK
- **Jan 2018:** *Gravity Seminar*, University of Southampton, UK
- **Nov 2017:** *Condensed Matter & Astrophysics Seminar*, Northwestern University, Evanston, Illinois, US
- **Nov 2017:** *Physics Colloquium*, Kent State University, Ohio, US

CONTRIBUTED SEMINARS, TALKS, AND POSTERS (27 IN TOTAL)

- **Jan 2025:** *Poster*, Quantum Technologies for Fundamental Physics (QTFP) Meeting, Glasgow, UK
- **Sept 2024:** *Talk*, Extreme Matter in Extreme Stars Workshop, Leiden, NL
- **Sept 2024:** *Talk*, SPINS-UK, University of Southampton, UK

CONTRIBUTED SEMINARS, TALKS, AND POSTERS (CONTINUED)

- **July 2024:** *Talk*, International Conference on Quarks and Nuclear Physics, Barcelona, ES
- **Nov 2023:** *Talk*, SPINS-UK, University of Oxford, UK
- **Jan 2023:** *Talk*, Institute of Space Sciences Strategy Retreat, Montserrat, ES
- **June 2022:** *Talk*, EAS Meeting 2022, Valencia, ES
- **June 2021:** *Talk*, EAS Meeting 2021, Leiden, NL (online)
- **Nov 2020:** *Pizza Seminar*, Institute of Space Sciences, Barcelona, ES (online)
- **July 2020:** *Talk*, Physics of Neutron Stars 2020, St. Petersburg, RU (cancelled due to Covid-19)
- **Mar 2020:** *Talk*, Annual PHAROS Conference, Patras, GR (cancelled due to Covid-19)
- **Nov 2019:** *Talk*, MAGNESIA Kick-Off Meeting, Institute of Space Sciences, Barcelona, ES
- **July 2018:** *Talk*, COSPAR 42nd Assembly, Pasadena, California, US
- **Apr 2018:** *Talk*, PHAROS WG2 Meeting, CAMK, Warsaw, PL
- **Nov 2017:** *Talk*, Neutron Star Crusts, JINA – INT Workshop, Seattle, Washington, US
- **Oct 2017:** *Talk*, New Perspectives on Neutron Star Interiors, ECT* Workshop, Trento, IT
- **Sept 2017:** *Talk*, Trotter Family Foundation Showcase, McGill University, Montréal, CA
- **May 2017:** *Talk*, SMFNS2017, Havana/Varadero, CU
- **June 2016:** *Talk*, AstroGrav Pizza Lunch, University of Southampton, UK
- **June 2015:** *Talk*, Annual NewCompStar Conference, Budapest, HU
- **Apr 2015:** *Talk*, BritGrav15, University of Birmingham, UK
- **Jan 2015:** *Talk*, Observations & Theory in the Dynamics of NS, ECT* Workshop, Trento, IT
- **Dec 2014:** *Applied Maths Postgraduate Seminar*, University of Southampton, UK
- **Mar 2014:** *Talk*, BritGrav14, University of Cambridge, UK
- **July 2013:** *Poster*, School on Gravitational Waves, Banach Center, Warsaw, PL
- **June 2013:** *Applied Maths Postgraduate Seminar*, University of Southampton, UK
- **Apr 2012:** *GR & Astrophysics Seminar*, University of Tübingen, DE

TEACHING (208 LECTURE HOURS IN TOTAL)

University of Hertfordshire, Department of Physics, Astronomy and Mathematics, UK

- *Spring & summer 2024:* 7PAM2002 Data Science Project (MSc level; supervisor)
- *Summer 2024:* 7PAM2015 Research Methods in Data Science (MSc level; lecturer)
- *Spring 2024:* 7PAM2016 Advanced Research Topics in Data Science (MSc level; lecturer)

Institute of Space Sciences & Autonomous University of Barcelona, Department of Physics, ES

- *Spring 2021/2022/2023:* Neutron Stars, Black Holes & Gravitational Waves (MSc level; lecturer)
- *July 2021:* ICE Annual Summer School on *AI for Astronomy* (MSc/PhD level; lecturer)

McGill University, Department of Physics, Montréal, CA

- *June 2019:* CRAQ Annual Summer School on *Stellar Astrophysics* (MSc/PhD level; lecturer)
- *Spring 2019:* PHYS 434 Optics (BSc level; module leader & lecturer)
- *Autumn 2018:* PHYS 352 Electromagnetic Waves, PHYS 521 Astrophysics (BSc level; guest lecturer)
- *Autumn 2017:* PHYS 632 Seminar in Astrophysics (MSc/PhD level; module leader & instructor)
- *Spring 2017:* PHYS 432 Physics of Fluids (BSc level; guest lecturer)

University of Southampton, Mathematical Sciences, UK

- *Spring 2014/2015:* MATH1007 Mathematical Methods For Physicists (BSc level; teaching assistant)
- *Autumn 2012/2013/2014/2015:* MATH1052 Differential Equations (BSc level; teaching assistant)
- *Autumn 2012/2013:* MATH2045 Vector Calculus & Complex Variables (BSc level; teaching assistant)
- *Spring 2014:* MATH3006 Relativity, Black Holes & Cosmology (BSc level; teaching assistant)

TEACHING (CONTINUED)

University of Tübingen, Department of Physics, DE

- 2008 – 2012: PP2 Experimental Physics II (BSc level; instructor & lecturer)
- Spring 2012: VFKOS Observational Cosmology (MSc level; teaching assistant)
- Autumn 2011: VFHAP High Energy Astrophysics (MSc level; teaching assistant)

SUPERVISION

Postdoctoral Researchers

- Dr Michele Ronchi (co-supervised with N. Rea), Institute of Space Sciences, ES (2024)

PhD Students

- Celsa Pardo Araujo (co-supervised with N. Rea), Institute of Space Sciences, ES (since 2021)
- Michele Ronchi (*cum laude*; co-supervised with N. Rea), Institute of Space Sciences, ES (2020 – 2023)

MSc Students

- Zoë Fowler, Institute of Space Sciences, ES (2022/2023)
- Marco Ermolli (co-supervised with D. Viganò), Institute of Space Sciences, ES (2020/2021)
- Étienne Camphius, McGill University, CA (2019)

BSc Project Students

- Nora Malgeri, RHUL, UK (spring 2025)
- Eric Amill Ferré, Institute of Space Sciences, ES (spring 2021)
- Claudia Bielecki, McGill University, CA (2019)
- Aveen Mahon, McGill University, CA (spring 2019)
- Jean-Michel Cauchy-Delli Gatti, McGill University, CA (summer 2017)

PROFESSIONAL SERVICES AND LEADERSHIP

- since 2020: *Mentor*, Evangelisches Studienwerk e.V. Villigst, DE
- Oct 2020 – Feb 2024: *Chair*, Pizza Seminars, Institute of Space Sciences, ES
- Sept 2020 – Sept 2023: *Member (chair 2022/2023)*, Equity Committee, Institute of Space Sciences, ES
- Oct – Nov 2022: *Instructor*, ECR Workshop on Postdoc Application Writing, Inst. of Space Sciences, ES
- July 2020 – Aug 2022: *Organiser*, Machine Learning Journal Club, Institute of Space Sciences, ES
- Oct 2016 – Dec 2019: *Member*, AstroMcGill (McGill Space Institute Outreach Team), CA
- May – Aug 2019: *Instructor*, McGill Space Institute Student Workshops, McGill University, CA
- June 2017 – May 2019: *Co-organiser*, McGill Space Institute Seminars, McGill University, CA
- Aug – Dec 2018: *Organiser*, Postdoctoral Personal Development Workshops, McGill University, CA
- May – Aug 2018: *Instructor*, McGill Space Institute Student Workshops, McGill University, CA
- Oct 2014 – Aug 2016: *Organiser*, Applied Maths Postgraduate Seminar, University of Southampton, UK

REVIEWING AND REFEREEING ACTIVITIES

- since 2017: *Reviewer* for scientific journals (A&A, ApJ, APSS, MNRAS, Nature, PRD, PRL)
- March 2025: *Observer*, [Cross Research Council Responsive Mode](#), UK Research and Innovation, UK
- Feb – March 2025: *Evaluator*, FLF Selection Panel Member for Round 10, RHUL, UK
- Nov 2022: *PhD thesis committee*, Ricard Aguilera-Miret, University of the Balearic Islands, ES
- Sept 2022: *PhD thesis committee*, Laura Cabayol García, Autonomous University of Barcelona, ES
- 2021: *External reviewer*, Early Career Scheme, [Research Grants Council](#) of Hong Kong, CN
- 2020: *External reviewer*, OPUS Funding Scheme, [National Science Center](#), PL
- 2017: *External reviewer* Junior Leader Grant Competition, [BASIS Foundation](#), RU

SCIENTIFIC MEETING ORGANISATION

- **Autumn 2025:** *LOC & SOC*, SPINS-UK Meeting, RHUL, UK
- **July 2024:** *Invited Convener*, [10th International Conference on Quarks & Nuclear Physics](#), Barcelona, ES
- **Nov 2022:** *LOC*, [3rd ATHENA Conference](#), Barcelona, ES
- **May 2022:** *LOC & SOC*, [Annual PHAROS Conference](#), Rome, IT
- **July 2021:** *LOC & SOC*, Institute of Space Sciences 4th International [Summer School on AI](#), ES (online)
- **Mar 2020:** *SOC*, [Annual PHAROS Conference](#), Patras, GR
- **Dec 2019:** *Invited Convener*, 30th Texas Symposium on Relativistic Astrophysics, Portsmouth, UK

MEMBERSHIP IN LARGE COLLABORATIONS

- **since March 2025:** New Athena Collaboration, Compact Objects & Transients Working Groups
- **since June 2024:** [BRIDGCE](#), UK Galactic Chemical Potential and Nuclear Astrophysics network
- **since Sept 2022:** Einstein Telescope ([ET](#)) Collaboration, Nuclear Physics & Transient Sources Divisions
- **since Feb 2020:** International Research Network for Nuclear Astrophysics ([IRENA](#))
- **since Feb 2019:** Joint Institute for Nuclear Astrophysics ([JINA – CEE](#))
- **since Jan 2018:** Square Kilometre Array ([SKA](#)) Collaboration, Pulsar Working Group (Associate Member)
- **Mar 2022 – Feb 2024:** [AIHUB](#), Artificial Intelligence initiative of Spain's National Research Council
- **Nov 2017 – May 2022:** [PHAROS](#) (European COST Action CA16214)
- **Nov 2013 – Nov 2017:** [NewCompStar](#) (European COST Action MP1304)

MEMBERSHIP IN SCIENTIFIC SOCIETIES

- **since June 2022:** *Junior Member*, International Astronomical Union ([IAU](#))
- **since Mar 2021:** *Ordinary Member*, European Astronomical Society ([EAS](#))
- **since Feb 2021:** *Leadership Team*, Inclusion, Diversity & Equity in European Astronomy ([IDEEA](#))
- **since Oct 2014:** *Member*, Institute of Physics ([IoP](#))
- **since Jan 2010:** *Member*, German Physical Society ([DPG](#))
- **Oct 2016 – Dec 2019:** *Member*, Le Centre de recherche en astrophysique du Québec ([CRAQ](#))

OUTREACH

- **March 2025:** Public lecture on *Neutron Star Hiccups & the Secrets They Reveal*, UK Science Week, RHUL
- **Jan 2024:** Virtual interview on *Neutronensterne* with German Year 11 high school students
- **Apr 2022:** Interview on *Neutronensterne* for the German Astronomy and Space Science podcast [raumzeit](#)
- **Mar – Aug 2021:** Scientific advisor for the [short film](#) *Pulsars: A tale of cosmic clocks*, which highlights the work of Dame Jocelyn Bell Burnell and won the first prize at the Science in Action 2022 competition
- **Feb 2021:** Virtual secondary school talk on *Being a Theoretical Astrophysicist* for the [100tifiques](#) initiative on the International Day of Girls and Women in Science, Barcelona, ES (online)
- **Oct 2020:** Webinar on *Neutron Stars – The Strongest Magnets in the Universe* as part of NASA's [Universe of Learning](#) program, USA (online)
- **July 2020:** Public lecture on *Wenn Neutronensterne Schluckauf haben* (in German) as part of the [Faszination Astronomie Online](#) series, Haus der Astronomie, Heidelberg, DE (online)
- **July 2020:** Public lecture on *Neutron Stars – Extraordinary Cosmic Laboratories* for SEDS Celestia (Astronomy & Astrophysics Club, BITS Pilani - K. K. Birla Goa Campus), Goa, IN (online)
- **Dec 2018:** Public lecture on *Neutron Stars – Extraordinary Cosmic Laboratories* as part of the [Public AstroNight](#) series, AstroMcGill, Montréal, CA
- **Nov 2018:** Science Storytelling Slam hosted by the [Broad Science](#) Initiative, Montréal, CA
- **Nov 2018:** Mentor and judge at the 3rd Annual McGill Physics Hackathon, Montréal, CA
- **Oct 2018:** Secondary school talk on *Our Solar System*, Schillerschule, Tuttlingen, DE
- **Sept 2017:** [Astronomy on Tap](#) talk on *Neutron Stars – A Space Odyssey*, Montréal, CA

OUTREACH (CONTINUED)

- **Aug 2017:** Solar eclipse viewing for thousands of spectators, McGill University, Montréal, CA
- **Mar 2016:** Southampton Science and Engineering Festival, University of Southampton, UK
- **Nov 2015:** Einstein's Legacy (outreach event for college students), QMUL, UK
- **Mar 2015:** Southampton Science and Engineering Day, University of Southampton, UK
- **Mar 2014:** The Big Bang Fair (science fair for secondary school students), Birmingham, UK
- **Mar 2013:** Southampton Science and Engineering Day, University of Southampton UK

ADDITIONAL WRITING

- **Article**, *The 69th Lindau Nobel Laureate Meeting*, News & Events McDonald Institute (Aug 2019)
<https://mcdonaldinstitute.ca/news/lino19/>
- **Blog post**, *10 Questions with Vanessa Graber*, Women in Research (June 2019)
<https://womeninresearchblog.wordpress.com/2019/06/26/vanessa-germany/>

SELECTED PRESS

- **Nov 2024:** *Physicists Spot Quantum Tornadoes Twirling in a 'Supersolid'*, [Quanta Magazine](#)
- **Aug 2024:** *A team of astronomers offer new insights into the evolution of pulsars*, [ICE Press Release](#)
- **Feb 2024:** *The 80s called, they want their ultra-long period radio transient back*, [astrobit.es](#)
- **June 2023:** *Probing the mysteries of neutron stars with a surprising earthly analog*, [Knowable Magazine](#)
- **Sept 2022:** *How (S)low Can You Go: Pulsar Edition*, [AAS Nova](#)
- **Dec 2020:** *Superfluid used to make sounds that might be heard in neutron star*, [New Scientist](#)
- **June 2020:** *NASA discovers youngest 'cosmic baby' neutron star*, [Independent](#)
- **June 2020:** *Astronomers just discovered the youngest ever 'baby' dead star*, [CNet](#)
- **June 2020:** *Astronomers find baby pulsar – a rare magnetar – born just 240 years ago*, [Astronomy Now](#)
- **June 2020:** *Astronomers Discover Youngest Magnetar Ever*, [Sci News](#)
- **June 2020:** *Hallan estrella 'bebé' que explica origen de las explosiones en el universo*, [La Vanguardia](#)
- **Aug 2019:** *Pulsar glitch suggests superfluid layers lie within neutron star*, [Physics World](#)
- **Aug 2019:** *Wenn Neutronensterne aus dem Takt geraten*, [Spektrum](#)
- **Aug 2019:** *A Glitch In A Neutron Star Allowed Astronomers To 'Peek' At Its Interior*, [IFL Science](#)
- **Aug 2019:** *A Radio Glitch Reveals The Structure Of A Neutron Star*, [Forbes](#)
- **Aug 2019:** *Patient astronomers crack the code of super-dense spinning stars*, [The Age](#)

ADDITIONAL TRAINING

Teaching Techniques for Instructors Workshop, McGill University, Montréal, CA (Sept 2017)

- *Details:* One day workshop organised by the [T-PULSE Initiative](#)
- *Topics:* Writing course syllabi, organising content, creating learning objectives, giving feedback.

Career and Leadership Development Course, University of Southampton, UK (Feb 2015)

- *Details:* Two-day intensive residential course run by the University's Doctoral College
- *Topics:* Developing a personal leadership style, improving understanding of career planning.

Management and Leadership Course, Furtwangen University, DE (Apr – Sept 2009)

- *Details:* Initiative by the [Ba-Wü Foundation](#) to support 20 outstanding female STEM students
- *Topics:* Improving management, communication and leadership skills through online training modules and on-site seminars, completing a marketing project in collaboration with a local company.