

Curriculum Vitae – Anna Lisa Varri

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Theoretical and Mathematical Astrophysics • Stellar dynamics • Kinematic complexity • Gravitational N-body problem

Positions

University of Edinburgh, Scotland, UK

- 05/2019 – *present* **UKRI Future Leaders Fellow**
School of Physics and Astronomy (SoPA) and School of Mathematics (SoM)
- 10/2015 – 10/2018 Marie Skłodowska-Curie Fellow, then Research Associate
School of Physics and Astronomy, Institute for Astronomy (IfA)
- 09/2012 – 09/2015 Royal Commission for the Exhibition of 1851 Fellow
School of Mathematics, Applied and Computational Mathematics Group (ACM)

Visiting research appointments

- 11/2018 – 11/2019 JSPS - Royal Society Fellow, then Visiting Associate
Dept. of Astronomy, University of Tokyo, JP
- 08/2012 – 08/2013 The Gruber Foundation - IAU Fellow
Dept. of Astronomy, Indiana University Bloomington, IN, USA
- 09/2010 – 07/2011 Fulbright Visiting Graduate Student Researcher
Dept. of Physics, Drexel University, PA, USA

Education

Università degli Studi di Milano, IT — Dept. of Physics, Supervisor: G. Bertin

- 01/2009 – 07/2012 Ph.D. in Theoretical Astrophysics, conferred 15/01/2013 — Thesis: “Dynamics of globular clusters”
- 10/2005 – 04/2008 Master’s degree in Theoretical Physics, with highest honours (110/110 *cum laude*)
- 09/2002 – 09/2005 Bachelor’s degree in Physics, with highest honours (110/110 *cum laude*)

Fellowships and awards

- 2019 Caroline Herschel Prize Lectureship, William Herschel Society and Royal Astronomical Society
Future Leaders Fellowship, UK Research and Innovation - *One of the twelve inaugural case studies*
- 2018 International Research Fellowship, Japan Society for the Promotion of Science and The Royal Society
- 2015 Marie Skłodowska-Curie Individual Fellowship, European Commission
- 2012 Research Fellowship, Royal Commission for the Exhibition of 1851
The Gruber Foundation Young Scientist Award, International Astronomical Union
Research Fellowship in Space Science, European Space Agency (declined)
- 2011 Research Fellowship for Theoretical and Particle Physics, Angelo Della Riccia Foundation
International Award for faculty and doctoral candidates, Drexel University
- 2010 “All Disciplines” Research Fellowship, US-Italy Fulbright Commission
- 2008 “Open Topic” National Doctoral Fellowship, Italian Ministry of Education

Funding history

2019 – 2023	PI	Future Leaders Fellowship Grant (MR/S018859/1), UKRI <i>Salary support and research budget for PI and 3-year PDRA (P. Kuzma)</i>	800,735 GBP
2020 – 2024	Co-I	Project de Recherche Collaborative: SEGAL, ANR (PI: C. Pichon)	627,000 EUR
2018 – 2020	PI	Research Grant-in-Aid, JSPS (KAKENHI-18F18787, relinquished)	1,800,000 JPY
2018 – 2020	PI	International Standard Fellowship Grant, JSPS (relinquished)	8,888,000 JPY
2017 – 2018	Co-I	International Team Grant, ISSI Bern (PIs: V. Hénault-Brunet, M. Gieles)	~20,000 CHF
2016 – 2019	Science Advisor	Research Project Grant, Leverhulme Trust (RPG-2015-408; PI: D. C. Heggie) <i>Salary for 3-year PDRA (P. Breen), research budget for PI, PDRA, two USA Co-Is</i>	174,630 GBP
2016 – 2017	PI	Research Incentive Grant, Carnegie Trust for the Universities of Scotland <i>Salary and travel budget for short-term PDRA (A. Zocchi)</i>	6,768 GBP
2015 – 2017	PI	Marie Skłodowska-Curie Action (NESSY, MSCA-IF-EF-RI-658088), EU H2020	183,455 EUR
2015	Co-I	Visitors to Scotland Grant, Royal Society of Edinburgh (PI: D. C. Heggie)	900 GBP
2012 – 2015	PI	Research Fellowship Grant, 1851 Royal Commission (2012–13 <i>in absentia</i>)	102,000 GBP
2012 – 2014	Co-I	PRIN 2010, MIUR (National PI: F. Matteucci; Unit PI: G. Bertin)	798,700 EUR
2012 – 2013	PI	IAU Research Fellowship Grant, The Gruber Foundation	50,000 USD
2012	PI	Research Grant, Angelo Della Riccia Foundation	3,600 EUR
2011	PI	International travel grants, Drexel University	1,000 USD
2010 – 2012	Co-I	PRIN 2008, MIUR (National PI: L. Ciotti; Unit PI: M. Lombardi)	42,902 EUR
2010 – 2011	PI	Fellowship and Travel Grant, US-Italy Fulbright Commission	11,500 USD
2009 – 2011	PI	Doctoral Fellowship (Cycle XXIV), Italian Ministry of Education (MIUR)	40,910 EUR

Invited research visits and programmes

2021	MIAPP Program: “ <u>Star forming clumps across cosmic time</u> ” (postponed to 2022)	Munich, DE
2020	KITP Program: “ <u>Globular Clusters at the Nexus of Star and Galaxy formation</u> ” (online)	Santa Barbara, USA
2018	Institut d’Astrophysique de Paris (Lagrange Visitor, Aug.)	Paris, FR
	Johns Hopkins University, Dept. of Physics & Astronomy (TIPAC Visitor, Mar.)	Baltimore, USA
2017	Institute for Advanced Studies, School of Natural Sciences (Astrophysics Visitor, Dec.)	Princeton, USA
2015	Max Planck Institute fuer Astronomie (SFB Visitor, Aug.)	Heidelberg, DE
2014	Kavli Summer Program in Astrophysics (KSPA, formerly ISIMA): “ <u>Gravitational Dynamics</u> ”	CITA, Toronto, CA
2012	Cambridge University, Institute of Astronomy (IoA Visitor, Aug.)	Cambridge, UK
2009	KITP Program: “ <u>Formation and Evolution of Globular Clusters</u> ” (Junior Member, Jan.)	Santa Barbara, USA

Reviewing and institutional responsibilities

Member - Royal Society International Exchanges Committee (2022 - 24), Royal Astronomical Society Library Committee (2020 -).

Member - Higgs Centre for Theoretical Physics Management Committee (2020 -); UoE Recruitment panels: Higgs Lectureship, Higgs Senior Fellowship (2021, SoPA); MAC-MIGS Centre for Doctoral Training Admission (2020 -, SoM); Chancellor’s Fellowship (2020, SoM); IfA Senior Fellowships quota (2020, SoPA); Whittaker Postdoctoral Fellowship (2019, SoM).

Reviewer - Space Telescope Science Institute (HST Cycle 29), Science and Technology Facilities Council (Astronomy Theory, ERF), UK Research and Innovation (FLF Peer Review College), National Science Centre Poland, Carnegie Trust for the Universities of Scotland, European Commission Research Executive Agency (MSCA), National Commission for Scientific and Technological Research in Chile, American Astronomical Society (Chambliss Award).

Referee - Physical Review Letters, Revista Mexicana de Astronomía y Astrofísica, Publications of the Astronomical Society of the Pacific, Astronomy & Astrophysics, The Astrophysical Journal/Letters, Monthly Notices of the Astronomical Society/Letters.

Organization of conferences, workshops, seminar series

2021	S/LOC Member	MODEST-21a: “AMUSE”	Virtual
2020	SOC Member	ObAS Conf: “The origin of angular momentum in stellar systems” (postponed)	Strasbourg, FR
2019	Organizer	New short seminar series: “Rotation in stars and stellar systems” (Fall 2019)	Tokyo, JP
2018	SOC Member	MPIA Conference: “Survival of dense star clusters in the Milky Way system”	Heidelberg, DE
2017	Session Chair	MODEST-17: “MODEST under Prague’s starry skies”	Prague, CZ
	Session Chair	AAS Division of Dynamical Astronomy Meeting #48	London, UK
2016+	Organizer	ROE “Coffee Talks” by external visitors (2016 – 18)	Edinburgh, UK
2016	Organizer	New short seminar series: “UKATC@Coffee” (Spring-Summer 2016)	Edinburgh, UK
	Organizer	“Gaia Challenge - Collisional systems” Team Meeting	Edinburgh, UK
2015	Session Chair	MODEST-15S: “Celebrating Steve McMillan 60th birthday”	Kobe, JP
	SOC Chair	UoE Researchers meeting with Italian Consul General for Scotland	Edinburgh, UK
2012	LOC Chair	UniMi Conference “Recent advances in Galactic Dynamics”	Como, IT

Participant upon nomination - Interdisciplinary research fora (with nominating bodies): UK-Japan Frontiers of Science 2019 (The Royal Society and JSPS), European Research Night (EURAXESS Japan and JSPS), Nobel Prize Dialogue 2019 (JSPS).

Observing time

Leading theorist Co-Investigator, for all programmes.

2020	HST (PI: E. Vesperini, Cycle 28, ID. 16157)	Archival
2019	UT4/MUSE (PI: E. Dalessandro, 0103.D-0545)	2 hours
	UT2/FLAMES (PI: M. Gieles, 0102.D-0164)	14.8 hours
2018	HAWK-I/GRAAL (PI: E. Dalessandro, Science Verification proposal 60.A-9467A)	1.7 hours
2017	HST (PI: F. R. Ferraro, Cycle 25, GO15232)	16 Orbits
2014	UT4/SINFONI, (PI: F. R. Ferraro, 195.D-0750)	Large Program
2013	UT2/FLAMES, (PI: A. Zocchi, 093.D-0628)	18.0 hours
	WIYN 0.9m/MOSAIC, (PI: E. Friel, 13A-0806)	6 nights
	WIYN 3.5m/pODI, (PI: E. Friel, 13A-0562)	2 nights
2012	UT3-Melipal/VIMOS, (PI: A. Zocchi, 091.D-0610)	11.1 hours

International research collaborations

2019+	Member	<u>Small-JASMINE</u> - Japan Astrometry Satellite Mission for INfrared Exploration (PI: N. Gouda) <i>Confirmed as M-class mission candidate by ISAS/JAXA - Working Group: Galactic Centre Archeology</i>
2018+	Contributor	<u>MAVIS</u> - MCAO Assisted Visible Imager and Spectrograph (PIs: F. Rigaut, R. McDerimid) <i>Instrument concept for ESO VLT Adaptive Optics Facility - Crowded field astrometry science case</i>
2018+	Core Member	<u>MIKiS survey</u> - ESO Multi-Instrument Kinematic Survey of Galactic Globular Clusters (PI: F. Ferraro)
2015+	Member	<u>Gaia-ESO survey</u> (PIs: G. Gilmore, S. Randich)
2019+	Member	<u>SEGAL</u> - Secular Evolution of Galaxies (PI: C. Pichon)
2013+	Member	<u>MODEST</u> - Modeling and Observing DEense STellar systems (Coordinator of review article, 2018)
2012+	Core Member	<u>“Gaia Challenge - Collisional Systems” / [GC]² Team</u> (co-PIs: M. Gieles, V. Hénault-Brunet)

Research supervision

Daggers denote the number of joint refereed publications (co/led by the advisee) resulted from collaborative activities.

P = Physics; AP = Astrophysics; TPMP = Theoretical Physics & Mathematical Physics; ACM = Applied & Computational Maths

Postdoctoral activities [3] - Pete Kuzma (2020 – 23, with A. M. N. Ferguson); Philip Breen ††† (2016 – 19, with D. C. Heggie); Alice Zocchi † (2016)

PhD theses [5] - Syaza Izzati Suhairulazrin (ACM 2021 – , with M. Ruffert); Samuel Bonsor † (ACM 2020 – , with J. Vanneste); Frederika Phipps †† (AP 2018 – , with S. Khochfar, several awards incl. 2021 RSE Saltire Early Career Fellowship); Alexander Livernois † (AP 2018 – , with E. Vesperini); Maria Tiongco †††† (AP 2012 – 18, with E. Vesperini, several awards, incl. 2016 AAS Duncombe Prize for Dynamics)

Postgraduate projects (co-supervision) [6] - Verónica Vázquez Aceves (2018 – 20 , with P. Amaro Seoane); Simon Rozier †† (2018 – , with C. Pichon); Ian Claydon † (2015 – 19, with M. Gieles); Kathryn Daniel † (2014 – 16, with D. C. Heggie); Ben Bar-Or (2014 – 15, with D. C. Heggie); Filippo Contenta † (2014 – 15, with D. C. Heggie)

Postgraduate projects (secondary supervision) [6] - Paolo Bianchini †† (2015 – 16, with G. van de Ven; 2014, with F. Renaud); Maxwell Cai † (2014 – 15, with M. Gieles, D. C. Heggie); Rosemary Shanahan (2014, with M. Gieles); Maria Cordero † (2012 – 13, with C. Pilachowski); Owen Boberg † (2012 – 13, with E. Friel)

Master’s theses [6] - Lucy Arditì (MPhys TPMP 2021 - 22); Hexuan Zhao (MSc TPMP 2021); Marine Demarty (MSc TPMP 2020, with J. A. Peacock); Sarah Heinzelmann (MSc TPMP 2018, with S. Khochfar); Paolo Bianchini †† (MSc P 2011 – 12, with G. Bertin); Alice Zocchi †† (MSc P 2009 – 10, with G. Bertin)

Bachelor’s theses [2] - Catherine Gosmeyer (AP 2013, with E. Vesperini); Paolo Bianchini (P 2009, with G. Bertin)

Senior Honours, Summer projects [5] - Lucy Arditì (TPMP & Summer Scholar 2021); Jamie Horlock (AP 2020); Anna Orpandi (AP Career Devel. Summer Scholar 2017); Doreen Xiong (P 2017)

Teaching

PhD external examiner [3] - Institut d’Astrophysique de Paris, FR (2020), University of Bologna, IT (2016), Sterrewacht Leiden, NL (2015).

2020 – 2022	Co-Lecturer, “Mathematics for Physics 1” (= Calculus, Yr1 core course, ~ 300 students) <i>Member of the Board of Examiners for Pre-Honours Mathematical Physics</i>	SoPA, Edinburgh
2016 – 2017	Workshop leader, “Introductory Astrophysics” (Module 3, Yr1 course, ~ 150 students)	
2014 – 2015	Substitute lecturer (2 weeks; ~ 80 students) and Tutor (12 students) “Mathematics for Science and Engineering 1b” (= Real Analysis, Yr1 core course) Tutor for “Mathsbase” (= drop-in center for all Yr1 Maths/Eng core courses)	SoM, Edinburgh
2014	Invited lecturer (2 lectures) & Supervisor, Advanced Int’l Research School (15 students) <i>Sole person responsible for the final phase, with daily individual sessions and closing workshop</i>	Kavli Summer Program (KSPA)
2013 – 2015	Co-supervisor & Second marker, Yr4/MMath projects (3 in total, primary: M. Ruffert)	SoM, Edinburgh
2012 – 2013	Guest lecturer (2 lectures), Graduate course A780 (~ 10 students) “Advanced lecture series on globular clusters”	Indiana University Dept. Astronomy

Conference presentations

Since 2009: 39 oral presentations, 17 of which upon accepted invitation; 10 poster presentations.

2020	Invited Talk	Multiple Stellar Population in the next decade (postponed)		Padova, IT
	Invited Talk	23rd Meeting on Research In Astronomy, IASBS (remote)	video	Zanjan, Iran
2019	Invited Poster	UK-JP Frontiers of Science 2019 (30 UK researchers invited)		Chiba, JP
	Talk	Gravitational Wave Physics and Astronomy Workshop		Tokyo, JP
	Invited Talk	UKRI FLF Inaugural Cohort Meeting (3 Fellows selected)		London, UK
	Talk	Symposium on Celestial Mechanics		Sagamihara, JP
	Talk	Galaxy Evolution Workshop 2019: “Subaru PFS”	slides	Kashiwa, JP
	Invited Talk	IAUS 351: “Star clusters: from the MW to the Early Universe”		Bologna, IT
2018	Solicited Talk	MPIA: “Survival of star clusters in the MW” (remote)		Heidelberg, DE
	Invited Keynote	STScI Conference: “Science with Precision Astrometry”	video	Baltimore, USA
	Talk	ISSI: “Globular clusters in the Gaia era - 1st meeting”		Bern, CH
2017	Talk	IAS workshop: “Stellar Dynamics in Galactic Nuclei”	video	Princeton, USA
	Invited Review	Astro-GR: Capture of compact objects by SMBHs		Barcelona, SP
	Talk	MODEST-17: “Under Prague’s starry skies”	slides	Prague, CZ
	Invited Talk	“The amazing life of stars”	slides	Cefalù, IT
	Talk	AAS DDA Meeting 2017	video	London, UK
	Invited Talk	Ringberg meeting: “The exciting lives of galactic nuclei”	slides	Ringberg, DE
2016	Talk	631 Heraeus Seminar: “Stellar aggregates”		Bad Honnef, DE
	Poster	SUPA Cormack Meeting 2016		Edinburgh, UK
	Talk	Gaia Challenge 4 @ NORDITA	slides	Stockholm, SE
	Invited Review	MODEST-16: “Star clusters as cosmic laboratories”	slides	Bologna, IT
2015	Invited Talk	MODEST-15S: “Celebrating Steve McMillan 60th birthday”		Kobe, JP
	Invited Talk	MODEST-15: “Modelling stellar systems in Chile”		Concepcion, CL
2014	Invited Talk	Center for Astrophysics (CfA): “Stellar N-body Dynamics”		Sexten, IT

2014	Poster Invited Talk Invited Talk Two posters	SUPA Cormack Meeting 2014 KSPA 2014: "Gravitational dynamics" @ CITA Lorentz Center: "Nuclear Star Clusters" MODEST-14: "The dance of stars"	slides slides	Edinburgh, UK Toronto, CA Leiden, NL Bad Honnef, DE
2013	Invited Talk Talk Invited Review Talk, two posters Dissertation talk	3rd Aarseth "Gluehwein" Meeting SUPA Cormack Meeting 2013 Gaia Challenge 1 @ Surrey 222nd AAS Meeting 221st AAS Meeting		Bonn, DE Edinburgh, UK Guildford, UK Indianapolis, USA Long Beach, USA
2012	Talk Talk, two posters Talk	3rd Indiana Astrophysics Meeting 28th IAU GA: "Origin of Massive Star Clusters" Volta: "Recent advances in stellar and galactic dynamics"		Terre Haute, USA Beijing, CN Como, IT
2011	Talk Poster Talk Poster	"Dark matter from star clusters to clusters of galaxies" 218th AAS Meeting ESO: "Dynamics of Low-Mass Stellar Systems" 217th AAS Meeting	slides	Univ. Bologna, IT Boston, MA, USA Santiago, CL Seattle, USA
2010	Invited Talk	Centro Studi Americani, Fulbright Meeting		Roma, IT
2009	Talk Talk Talk Poster Talk, two posters	Volta: "Plasmas in the Laboratory and in the Universe" Workshop of the Doctoral School in Physics "Dark matter haloes from smallest to largest scale" Lincei: "Galaxy properties across cosmic ages" KITP: "Formation and Evolution of Globular Clusters"	video	Como, IT Milano, IT Bologna, IT Roma, IT Santa Barbara, USA

Seminars

Since 2008: 44 seminars, 36 of which upon accepted invitation.

2021	Invited seminar Invited colloquium Invited seminar Invited colloquium	Centre for Mathematical Sciences (Theor Phys series, remote) Higgs Centre for Theoretical Physics (Higgs Hour, remote) Liverpool John Moore Univ. (ARI colloquium, remote) Univ. Vienna (Astronomy colloquium, remote)	video	Plymouth, UK Edinburgh, UK Durham, UK Vienna, AU
2020	Invited seminar Invited seminar Invited colloquium Invited seminar	Durham Univ. (Astrophysics colloquium, remote) Mullard Space Science Lab. (Astrophysics series, remote) Univ. Dundee, Dept. Physics Observatoire de Strasbourg		Durham, UK Dorking, UK Dundee, UK Strasbourg, FR
2019	Invited lecture Invited seminar Invited colloquium Invited colloquium	Univ. Bath (2019 Caroline Herschel Prize Lecture) Charles Univ. (Astronomy colloquium) Univ. Tokyo, Dept. Physics (RESCEU) Univ. Tokyo, Dept. Astronomy	video	Bath, UK Prague, CZ Tokyo, JP Tokyo, JP
2018	Invited seminar Invited seminar Seminar Invited colloquium Invited seminar Invited seminar	Univ. Milano, Dept. Physics (Astrophysics series) Institut d'Astrophysique de Paris (Galaxies Club) Univ. Tokyo, Dept. Astronomy (MakinoLab series) Keele Univ., Dept. Physics (Astrophysics series) Johns Hopkins Univ./STScI (CAS Wine & Cheese) Max Planck Institute for Astrophysics (Galaxy F&E)		Milano, IT Paris, FR Tokyo, JP Staffordshire, UK Baltimore, USA Garching, DE
2017	Invited seminar Invited colloquium Invited seminar Invited colloquium Short seminar Invited colloquium Invited seminar	Institute for Advanced Studies (Astrophysics series) Queen Mary Univ. of London (Astronomy Unit) Univ. Cambridge, DAMTP (Astrophysics series) Univ. Durham (Astronomy colloquium) Univ. Edinburgh, IfA (Stobie) Osservatorio di Arcetri, INAF Univ. Glasgow, Dept. Physics (A&A Astrochat)		Princeton, USA London, UK Cambridge, UK Durham, UK Edinburgh, UK Firenze, IT Glasgow, UK
2016	Seminar Short seminar	Mullard Space Science Laboratory (Astrophysics series) Univ. Edinburgh, IfA (Stobie)		Dorking, UK Edinburgh, UK
2015	Invited colloquium Invited colloquium Invited seminar Seminar Invited colloquium	UC Santa Cruz, Dept. Astronomy & Astrophysics MPIA & Landessternwarte (Konigstuhl Colloquium) Max Planck Institute for Astronomy, (Galaxy Group) Univ. Edinburgh, School of Maths (Waves & Flows) Univ. Central Lancashire, J. Horrocks Institute		Santa Cruz, USA Heidelberg, DE Heidelberg, DE Edinburgh, UK Preston, UK
2014	Invited seminar Two chalk talks Invited seminar	CITA (Astro Fluid Discussion) Univ. Edinburgh, School of Maths (Waves & Flows) Univ. Surrey, Dept. Physics		Toronto, CA Edinburgh, UK Guildford, UK
2013	Short seminar Invited colloquium	Univ. Edinburgh, School of Maths (ACM seminar) Ball State Univ., Dept. Physics		Edinburgh, UK Muncie, USA
2012	Invited colloquium Invited seminar Invited seminar	Indiana Univ., Dept. Astronomy Univ. Cambridge, IoA (Wednesday seminar) ESA-ESTEC, Prospective ESA fellows Jamboree		Bloomington, USA Cambridge, UK Noordwijk, NL
2011	Invited seminar	Northwestern Univ., CIERA (Theory seminar)		Evanston, USA
2010	Invited seminar	Drexel Univ., Dept. Physics		Philadelphia, USA
2008	Seminar series	Univ. Milano, Dept. Physics (three lectures)		Milano, IT

Mentoring and inclusion

IfA Representative - Equality, Diversity and Inclusion (EDI) Committee, SoPA (2020 -)

Postgraduate pastoral support tutor - Graduate School in Physics and Astronomy, SoPA (2021 -)

Professional training - Participant (upon nomination by UoE College of Science) in “Research Leader Programme 2016”; Institute for Academic Development courses on Equality, Diversity and Inclusion (EDI); UKRI FLF Development Network Modules on Mentoring, Research Culture, Inclusivity. Member of UKRI Early Career Researchers Forum.

2021	Two Invited talks	“Women who Code” Meeting (remote)	Edinburgh, UK
	Featured researcher	<u>Academic Interviews Project, SoM</u>	Edinburgh, UK
2020+	Member	IfA EDI Discussion Group	Edinburgh, UK
2020+	Conf. contact	Institute for Astronomy PhDs & PDRAs	Edinburgh, UK
	Featured researcher	<u>PhysAstroEDI Project, SoPA</u>	Edinburgh, UK
2019	Mentor	‘SOS Women UTokyo’ Support Group (Coord. M.S. Fujii)	Tokyo, JP
	School lecture	“My questions and life in astrophysics” Urawa Akenohoshi Girls School <i>As part of the JSPS Science Dialogue High School Program</i>	Saitama, JP
2018	Solicited talk	“Fellowships: a biased how-to”, UoE Astronomy PhD workshop	Edinburgh, UK
2017	Invited article	“Working relationships”, New UoE IAD Guide for Research Staff	
	Featured researcher	<u>Personal feature article</u> , UoE Maths Undergrad Magazine: “Contours”	
2014+	Panelist	“Women in Maths: Is there a PhD in your future?” (<i>annually</i> , ×3)	Edinburgh, UK
	Invited talk	“How to get a Fellowship”, UoE Maths PhD workshop	Edinburgh, UK
2013	School lecture	“Women in Astronomy”, Carmel High School <i>As part of the NASA Astro4girls High School Program</i>	Carmel, IN, USA

Outreach

Outreach Coordinator - Higgs Centre for Theoretical Physics, SoPA. Initiator of IWD21 Showcase, “Concept Video” series.

2021	Invited Podcast	Electric Voice Theatre & RAS, Series: “Women of Science & Music” <i>Episode on Caroline Herschel’s contribution in astronomy and music</i>	
	Interview	“Higgs Chat” Series	Edinburgh, UK
2020+	Invited talk	“Reaching for the stars: Women in Astronomy” <i>As part of the Audacious Women Festival, 2020, 2021 (remote)</i>	Edinburgh, UK
2020	Mini-event	“ <u>Inclusive Astronomy</u> ”, ROE Open Day 2020 (remote)	Edinburgh, UK
	Solicited lecture	“ <u>Women in Astronomy - at the ROE and around the World</u> ” (remote)	Edinburgh, UK
2019	RAS public lecture	“Small stellar systems, big astrophysical questions” <i>Offered twice, as part of the Royal Astronomical Society Public Lectures series</i>	London, UK
	Invited talk	“My Science, Our Dialogue”, European Research Night <i>Invited by JSPS, as part of an event series by EURAXESS Japan.</i>	Tokyo, JP
	Featured researcher	“The Nature of Play” children’s book on creativity, Fanny & Alexander	
2018	Invited article	“ <u>Motion of stars</u> ”, Magazine “Astronomy”, Column “Ask Astro”	
2016+	Public talk	“Old stellar systems, new science” and Astro Arts & Crafts for kids <i>As part of the Royal Observatory Edinburgh Open Days (annually, ×3)</i>	Edinburgh, UK
2016	Public lecture	“New science from old stellar systems”, ROE ‘Winter Talk’ series	Edinburgh, UK
2015	Public lecture	“At the crossroads of Mathematics, Astronomy, and Physics” <i>As part of the ‘General Audience Maths Edinburgh Seminar’ series</i>	Edinburgh, UK
2014	Speaker	Informal 1851 Royal Commn presentation for HRH Princess Anne	London, UK
2013	Invited article	Univ. Milano Magazine “Science Messenger”, Expert commentary	
	Public talk	“Numerical simulations for stellar dynamics” <i>As part of the dedication ceremony of the Big Red II Cray Supercomputer</i>	Bloomington, USA
	Featured researcher	Outreach movie, Indiana Univ. Astronomy & WYIN Observatory	
2011	Public talk	“A journey in the Universe”, Drexel Physics Open House	Philadelphia, USA

Press highlights

2020	<u>UKRI Future Leaders Fellowship Presentational Video</u>	UKRI
	JSPS Science Dialogue Program - <u>One of two national case studies</u>	JSPS
2019	Interview and <u>personal feature article</u> , covering my JSPS Science Dialogue lecture	The Yomiuri Shinbun
	<u>Caroline Herschel Prize Lectureship Citation, Announcement by William Herschel Society</u>	RAS/WHS
	UKRI: “ <u>Next generation of prize-winning researchers receive government investment</u> ” <i>Also highlighted by Univ. Edinburgh General and Physics Press Office</i>	UK BEIS
2018	“ <u>Updating the dynamical paradigm for Galactic globular clusters</u> ” <i>Also highlighted as a feature article for theme ‘Space’, in “Research EU” Magazine, 72, May 2018</i>	EU CORDIS
2015	News articles: <u>Marie Skłodowska-Curie Award, Leverhulme Grant Award</u> “ <u>Ski or jump? How neutron star kicks can break up clusters</u> ” (Contenta, Varri, Heggie 2015) <i>Also highlighted by several international media outlets, from the “Portal to the Universe” to Reddit</i>	UoE Maths Press RAS/INAF
2013	Interview and <u>personal feature article</u> , as part of 2013 Women’s History Month Celebration “ <u>Early Evolution of a Star Cluster in the Galactic Tidal Field</u> ” (Vesperini, Varri et al. 2014)	The Indianapolis Star SC13 Science Exhibit
2012	“ <u>1851 Research Fellowship Award</u> ”, “ <u>Towards a new paradigm for globular star clusters</u> ” <u>Gruber Fellowship Award, Ceremony, Personal feature article</u> at 28th IAU GA, Beijing, CN <i>Also highlighted by Univ. Milano General Press Office</i>	The Times/ RCE1851 IAU/Gruber