

CONTACT INFORMATION	eduardo-escoto.com github.com/eduardo-escoto linkedin.com/in/eduardo-escoto	me@eduardo-escoto.com elescoto@ucsd.edu (858)357-1868
EDUCATION	University of California, San Diego Ph.D., Computer Science Advisor: Prof. Julian McAuley September 2024 - June 2029 (Expected) San Diego, CA, USA	
	University of California, Santa Barbra B.S. Mathematics and B.S. Statistics & Probability Organizations: Data Science Club, Association for Women in Mathematics September 2017 - June 2020 Santa Barbara, CA, USA	
	San Diego Miramar College A.A. Mathematics September 2014 - June 2017 San Diego, CA, USA	
EMPLOYMENT	Associate Professor , University of Mississippi, Oxford, MS USA July 2024–Present	
	Assistant Professor , University of Mississippi, Oxford, MS USA August 2018–June 2024	
	Senior Postdoctoral Researcher , Caltech, Pasadena, CA USA September 2015–August 2018	
	NASA Einstein Fellow , Cornell, Ithaca NY, USA September 2012–August 2015	
	Research and Teaching Assistant , MIT, Cambridge MA, USA September 2006–May 2012	
	Teaching Assistant , Caltech, Pasadena, CA, USA Fall 2004, Spring 2005	
	Summer Research Fellow , Caltech, Pasadena, CA, USA June–September 2003/2005	
RESEARCH INTERESTS	General relativity (GR), gravitation, and astrophysical phenomena which can elucidate gravity. One major theme is pushing numerical and analytical gravitational-wave (GW) predictions to the precision frontier in advance of next-generation observatories. A second major theme is using GWs to test GR against beyond-GR models, in both theory-independent and theory-dependent models. This involves numerical relativity and renormalization methods applied to specific effective field models for beyond-GR theories.	
HONORS AND AWARDS	Sloan Research Fellowship , Alfred P. Sloan Foundation, 2023–2025	
	CAREER Award , NSF 2021–2026	
	Einstein Postdoctoral Fellow , NASA 2012–2015	
	Henry Kendall Teaching Award , Massachusetts Institute of Technology 2011	
	Upperclass Merit Scholarship , California Institute of Technology 2005–2006	
TEACHING EXPERIENCE	Professor , University of Mississippi	

Phys. 213, General physics I	Spring 2021
Phys. 401, Electromagnetism I	Falls 2019–2022
Phys. 402, Electromagnetism II	Springs 2019–2021
Phys. 436, Intro to cosmology	Fall 2023
Phys. 463/4, Senior research project	Fall 2020, Spring 2021, Fall 2023
Phys. 503/630, Graduate reading course	Spring 2019, Falls 2020–2021
Phys. 709, Graduate classical dynamics I	Fall 2018
Phys. 721, Graduate electrodynamics I	Springs 2022–2024
Phys. 722, Graduate electrodynamics II	Falls 2022–2023
Phys. 750, General relativity II	Spring 2020

Guest Lecturer, California Institute of Technology

Ph236, General relativity	Fall 2017
Ph237, Gravitational Waves	Spring 2016

Guest Lecturer, Massachusetts Institute of Technology

8.901, Graduate Astrophysics I	Spring 2011
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Teaching Assistant, Massachusetts Institute of Technology

8.942, Cosmology	Fall 2011
8.901, Graduate Astrophysics I	Spring 2011
8.286, The Early Universe	Fall 2009

Teaching Assistant, California Institute of Technology

Ph 7, Nuclear and Quantum Physics Lab	Spring 2005
Ph 5, Analog Electronics for Physicists	Fall 2004

MENTORING/
SUPERVISION**Postdoctoral researchers**

Károly Csukás	Fall 2021–present
José Tomás Gálvez Gherzi	Fall 2019–Spring 2021
Now faculty at Universidad de Ingeniería y Tecnología, Peru	

Graduate students

David Bronicki, University of Mississippi	Fall 2019–Summer 2023
Subhayu Bagchi, University of Mississippi	Fall 2019–present
Aniket Khairnar, University of Mississippi	Fall 2019–present
Akshay Khadse, University of Mississippi	Fall 2018–present
Lorena Magaña Zertuche, University of Mississippi	Fall 2018–present
Joe Rivest, University of Mississippi	Fall 2018–present
Sashwat Tanay, University of Mississippi	Fall 2018–Summer 2022
Now a postdoc at LUTH, Meudon, France	
Maria (Masha) Okounkova, Caltech	Fall 2015–Summer 2019
Now faculty at Pasadena City College	

	Baoyi Chen, Caltech	Fall 2016–Summer 2018
	Undergraduate students	
	Wayne Zhao, Harvard	Summer 2016
	Now a graduate student at Princeton	
PROFESSIONAL ACTIVITIES, OUTREACH, AND SERVICE	LISA Consortium, Full member	2020–Present
	UMiss LISA Group leader	2020–Present
	Simulating eXtreme Spacetimes collaboration	2015–Present
	Executive committee member	2018–Present
	American Physical Society, member	2010–Present
	Division of Gravitational Physics	
	Secretary/Treasurer	2023–2026
	Executive Committee Member-at-Large	2016–2019
	Division of Astrophysics	
	Conference organizer	
	Nonlinear Aspects of General Relativity, Princeton PCTS	October 2023
	Numerical Relativity Community Summer School, ICERM	August 2022
	Week-long international summer school, 150 participants	
	Workshop on New frontiers in strong gravity, Benasque	July 2022
	Two week international workshop, 100 participants	
	Workshop on Numerical Relativity beyond General Relativity, Benasque	June 2018
	Week-long international workshop, 59 participants	
	34 th Pacific Coast Gravity Meeting (PCGM), Caltech	March 2018
	Two-day conference, ~ 125 participants	
	Workshop on Unifying Tests of General Relativity, Caltech	July 2016
	Three day workshop, 52 participants	
	Seminar organizer	
	TAPIR seminar, Caltech	Fall 2015–Spring 2018
	General Relativity Informal Tea-Time Series (GRITTS), MIT	Fall 2011–Spring 2012
	MKI Journal Club, MIT	Fall 2007–Spring 2010
	Conference session chair; Judge for best student speaker award	
	April APS meeting, NY, NY	April 2022
	Midwest relativity meeting, Grand Rapids, MI	October 2019
	April APS meeting, Columbus, OH	April 2018
	34 th Pacific Coast Gravity Meeting (PCGM), Caltech	March 2018
	33 rd Pacific Coast Gravity Meeting (PCGM), UCSB	March 2017
	“April” APS meeting, Washington D.C.	January 2017
	32 nd Pacific Coast Gravity Meeting (PCGM), CSU Fullerton	April 2016
	Theoretical Astrophysics in Southern California (TASC), CSU Fullerton	November 2015

Journal referee

American Journal of Physics, Classical and Quantum Gravity, Journal of Cosmology and Astroparticle Physics, Journal of Open Source Software, General Relativity and Gravitation, Monthly Notices of the Royal Astronomical Society, Physics Letters B, Physical Review D, Physical Review Letters, Physical Review X, Reviews of Modern Physics, The Astrophysical Journal Letters, The Physics Teacher

Agency work

Reviewer for NSF, NASA

Outreach

Oxford Science Café	April 2019
Lecture: “The truth about black holes”	
Guest on the <i>Starts With a Bang</i> podcast	March 25, 2019
Episode 42: Black holes and gravitation	
Invited speaker for Latin American Webinar on Physics	March 13, 2019
Webinar 75: “Testing Einstein with numerical relativity”	
Caltech astronomy public lecture series speaker	March 2018
Lecture: “The truth about black holes”	
Astronomy on Tap public lecture series speaker and volunteer	2016–2018
Close to a monthly basis	
Caltech astronomy public lecture series panelist and emcee	2016–2018
Approximately every three months	
Invited guest lecture on black holes and gravitational waves	November 2017
<i>Science of Space and Time</i> , Hampshire College	
Invited video Q&A session, public high school physics class	June 2017
<i>The Nova Project</i> school, Seattle	
Guest on <i>The Titanium Physicists Podcast</i>	
Episode 80: Picturing the Bach Hole	August 21, 2019
Episode 64: The edges of Einstein	April 25, 2016
Episode 62: Black Bells	February 1, 2016
Quora Q&A Session on gravitational waves and first detection	February 17, 2016
83.9k+ views, 20.8k+ followers	
Invited guest host, public screening of <i>COSMOS</i> with Q&A,	March/June 2014
Science Cabaret/Cornell	
Invited public talk at <i>Frontiers of Cornell Astronomy</i> ,	November 2013
Cornell Friends of Astronomy	
Invited video chat, <i>Topics in Physics</i> course,	July 2013
Stanford Education Program for Gifted Youth	

COMPUTER SKILLS Expert in MATHEMATICA. Proficient in C/C++, Python, Bash, Javascript. Experience in Java, Haskell. Proficient at *nix and HPC. Markup languages: L^AT_EX, HTML, CSS, Markdown.

Software—Most contributions can be found at <https://github.com/duetosymmetry>. Member of the *Simulating eXtreme Spacetimes* (SXS) collaboration, contributor to the Spectral Einstein Code (SpEC). Member of the *Black Hole Perturbation Toolkit*. Author of `qnm` python package (<https://github.com/duetosymmetry/qnm>). Core collaborator on xACT (<http://xact.es>) abstract tensor

calculus package for MATHEMATICA. Coauthor of xTERIOR package for exterior differential geometry under xACT. Co-maintainer of community contributions at <http://contrib.xact.es>. Developed [arXiv-keys](#) browser extension/add-on for Chrome/Firefox. Author of [orcidlink](#) and coauthor of [gridpapers](#) packages for L^AT_EX.

REFERENCES

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