Antoni Luque, Ph.D. C.V. 2022

AWARDS, FELLOWSHIPS, AND HONORS

- 2020 Mentors Hall of Fame, Student Research Symposium, San Diego State University.
- 2019 Grant Research and Enterprise Writing Fellowship, San Diego State University (3,000 USD).
- 2019 Outstanding Faculty Award, College of Sciences, San Diego State University.
- 2019 Outstanding Faculty Award, Department of Physics, San Diego State University.
- 2019 Senate Teaching Excellence Award nominee, San Diego State University.
- 2018 Faculty Innovation and Leadership Award, California State University (10,000 USD).
- 2018 Top ePortfolio Award for "Calculus for the Life Sciences: Growth Mindset and Active Learning" as part of the Course Redesigned with Technology Program.
- 2017 California State University Program in Education and Research in Biotechnology (CSUPERB) Travel Award, Institute of Mathematical Sciences, Singapore (2,000 USD).
- 2017 Outstanding Faculty Award, Department of Physics, San Diego State University.
- 2017 Center for Teaching and Learning Academy Award, San Diego State University.
- 2012 Thesis Honors by the Claustre de Doctors of the Universitat de Barcelona, Spain.
- 2011 Thesis Honor Award from the Ph.D. program of the Government of Catalonia, Spain (6,000 EUR).
- 2010 Research Fellowship for a research visit at the University of California, Los Angeles, funded by the Government of Catalonia, Spain (7,500 EUR).
- 2007 Ph.D. Research Fellowship. Government of Catalonia, Spain, 2007-2010 (60,000 EUR).
- 2006 Extraordinary M.S. Award in Biophysics from the Universitat de Barcelona, Spain, 2006.
- 2006 Undergraduate Research Fellowship. Ministry of Education and Science, Spain (4,000 EUR).

PRESENTATIONS

Invited Talks and Seminars

- 2022 Physics Seminar, Department of Biology, University of Miami, Coral Gables, FL, USA.
- 2022 Biology Seminar, Department of Biology, University of Miami, Coral Gables, FL, USA.
- 2022 Ciclo Los Viernes de la Evolución, Colegio Nacional, Mexico City, Mexico (Spanish).
- 2022 Mathematics Seminar, Temple University, Philadelphia, PA, USA,
- 2022 Mathematical Biology Colloquium, University of California, Merced, CA, USA.
- 2022 Computational Science Research Colloquium, San Diego State University, San Diego, CA, USA.
- 2022 Physics Colloquium, Florida International University, Miami, FL, USA.
- 2021 Biology of Viruses (BIL354), The University of Miami, Miami, FL, USA.
- 2021 Interdisciplinary Center for Quantitative Modeling in Biology, University of California, Riverside, USA.
- 2020 International Conference on Science and Technology of Complex Fluids, Universidad de Guanajuato, Guanajuato, Mexico.
- 2020 Computational Science Research Colloquium, San Diego State University, San Diego, USA.
- 2019 International Workshop on Calorimetry and Microbial Ecology, Telluride Science Research Center, Telluride, CO, USA.
- 2019 San Diego Microbiology Group, University of California, San Diego, USA.
- 2018 Computational Science Research Colloquium, San Diego State University, San Diego, CA,USA.
- 2018 York Cross-disciplinary Centre for Systems Analysis, University of York, UK.
- 2018 Coral Club, San Diego, CA, USA.
- 2017 International workshop on geometry and shape analysis in biological sciences, Institute for Mathematical Sciences, Singapore.
- 2015 Computational Science Research Colloquium, San Diego State University, San Diego, USA.
- 2015 Southern California Systems Biology Conference, UC Irvine, CA, USA.
- 2015 International Year of the Phage Conference, San Diego State University, USA.
- 2014 Center for Genomic Regulation, Barcelona, Spain.
- 2014 Condensed matter seminar series, Department of Physics, Universitat de Barcelona, Spain.
- 2014 Biomathematics and Computational Biology Colloquium, Courant Institute of Mathematical Sciences, New York University, New York, NY, USA.
- 2014 Viral Information Institute, San Diego State University, San Diego, CA, USA.
- 2014 Physics seminar, Hunter College of The City University of New York, New York, USA.
- Seminar at the Department of Biochemistry and Molecular Biology, Pennsylvania State University, Hershey, USA.
- 2011 Seminar condensed matter series, Universidad Autónoma de Madrid, Spain.

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2010	Physics seminar, Brookhaven National Laboratory, Long Island, CA, USA.	
2010	Quantitative biology seminar, University of Southern California, Los Angeles, USA.	
2010	Biophysics seminar, University of California, Los Angeles, USA.	
2010	Seminar, National Center of Biotechnology (CNB- CSIC), Madrid, Spain.	
2009	Condensed matter seminar series, Universitat de Barcelona, Barcelona, Spain.	
2009	Quantitative biology seminar, Institute of Marine Sciences (ICM-CSIC), Barcelona, Spain.	
Contrib	outed Talks	
2022	FASEB Virus Structure and Assembly, Southbridge, Connecticut, USA.	
2022	International Virus Bioinformatics Meeting, Valencia, Spain (online).	
2020	International Colloquium Physics and Function of Protein Nanoshells: From Viruses to Bio	mimetic
	Nanocontainers, Condensed Matter Division 2020 Meeting, Madrid, Spain (online).	
2020	International Coral Reef Symposium (ICRS), (cancelled due to COVID19).	
2011 2009	FISES'11: XVII National Conference on Statistical Physics, Barcelona, Spain. SEV 2009: X Spanish National Conference of Virology, Salamanca, Spain.	
2009	SEV 2009. A Spanish National Conference of Virology, Salamanca, Spain.	
MENTO	DING	
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Assista	ant Professors (1)	
71001010	Uduak George, Department of Mathematics & Statistics, SDSU.	2020 - Present
Postdo	ctoral Researcher (1)	
	Sergio Cobo-López, biophysical modeling, co-mentorship, SDSU.	2021 - Present
	Margarita Salas fellowship.	
Dootor	ol Studente (2)	
Doctor	al Students (3) Diana Lee, Computational Science, SDSU.	2016 – Present
	NSF G-STEM Scholarship, Computational Science Qualcomm Award, SIAM	2010 11030110
	CSE Award, Grace Hopper Scholar 2017, SACNAS Scholar,	
	Viral Information Institute Interdisciplinary Graduate fellowship.	
	James Mullinix, Computational Science, SDSU.	2015 - Present
	NSF G-STEM Scholarship, Student Travel Award, Computational Science Tioga	
	Research Award and Natural Selection, Inc. Award.	
	Kevin Joiner, Computational Science, SDSU.	2015 – 2018
	SMART Fellowship, Department of Defense, NSF G-STEM Scholarship,	
	Computational Science ESET Research Award.	
Master	Students (10)	
	Aurora Vogel, Applied Mathematics, co-mentorship, SDSU.	2021 - Present
	Emma Sully, Applied mathematics, lab internship, SDSU.	Summer 2021
	Brandon Ricafrente, Physics, SDSU.	2020 - Present
	Colin Brown, Physics, SDSU.	2019 – Present
	Matthew Witt, Physics, SDSU.	2017 – 2019
	Emily Jasien, Applied Mathematics, SDSU.	2015 – 2017
	Shahir Sikder, Mathematics, SDSU.	2015 – 2016
	Emma George, Cell Molecular Biology, co-mentorship, SDSU.	2015 – 2016
	Maria Aznar, Biophysics, co-mentorship, Universitat de Barcelona.	2010 – 2011
Underg	raduate Students (17)	
	Vaishnavi Patel, Biology, SDSU.	2022 - Present
	Caitlin Bartels, Biology, SDSU.	2020 - Present
	Jessica Vogt, Computer Science, SDSU.	Fall 2021
	Neilsen Lu, Mathematics, SDSU.	2020 – 2021
	Antonio Cobarrubia, Physics, SDSU.	2018 – 2019
	Austin Crispin-Smith, Physics, SDSU.	2018 – 2019
	Jarod Tall, Physics, SDSU.	2018 – 2019
	Meg Robinson, Mathematics, SDSU. Malida Hecht, Physics, SDSU.	2018 – 2019 2018 – 2019
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Undergraduate Senior Thesis Supervised (5)

Antonio Cobarrubia, Physics, SDSU.

Austin Crispin-Smith, Physics, SDSU.

Jarod Tall, Physics, SDSU.

James Hellfeier, Physics, SDSU.

Max Anthenelli, Physics, SDSU.

2019

2018

Courses Taught

Calculus for the Life Sciences, MATH 124, 3 units, lecture, 128 students, SDSU. Spring 2022 Calculus for the Life Sciences, MATH 124, 1 unit, lab coordinator, 6 sections, SDSU. Spring 2022 Communication in Interdisc. Appl. Math., MATH 695, 3 units, lecture, 4 students, SDSU. Spring 2022 Calculus for the Life Sciences, MATH 124, 3 units, lecture, 129 students, SDSU. Fall 2021 Calculus for the Life Sciences, MATH 124, 1 unit, lab coordinator, 6 sections, SDSU. Fall 2021 Calculus for the Life Sciences, MATH 124, 3 units, lecture, 174 students, SDSU. Spring 2021 Calculus for the Life Sciences, MATH 124, 1 unit, lab coordinator, 6 sections, SDSU. Spring 2021 Communication in Interdisc. Appl. Math., MATH 695, 3 units, lecture, 10 students, SDSU. Spring 2021 Calculus for the Life Sciences, MATH 124, 3 units, lecture, 105 students, SDSU. Fall 2020 Calculus for the Life Sciences, MATH 124, 1 unit, lab coordinator, 4 sections, SDSU. Fall 2020 Calculus for the Life Sciences, MATH 124, 3 units, lecture, 125 students, SDSU. Spring 2020 Calculus for the Life Sciences, MATH 124, 1 unit, lab coordinator, 4 sections, SDSU. Spring 2020 Methods of Applied Mathematics II, MATH 342B, 3 units, lecture, 31 students, SDSU. Spring 2020 Calculus for the Life Sciences, MATH 124, 3 units, lecture, 68 students, SDSU. Fall 2019 Calculus for the Life Sciences, MATH 124, 1 unit, lab coordinator, 3 sections, SDSU. Fall 2019 Methods of Applied Mathematics I, MATH 342A, 3 units, lecture, 45 students, SDSU. Fall 2019 Calculus for the Life Sciences, MATH 124, 3 units, lecture, 89 students, SDSU. Spring 2019 Calculus for the Life Sciences, MATH 124, 1 unit, lab coordinator, 4 sections, SDSU. Spring 2019 Methods of Applied Mathematics II, MATH 342B, 3 units, lecture, 26 students, SDSU. Spring 2019 Calculus for the Life Sciences, MATH 124, 3 units, lecture, 95 students, SDSU. Fall 2018 Calculus for the Life Sciences, MATH 124, 1 unit, lab coordinator, 4 sections, SDSU. Fall 2018 Methods of Applied Mathematics I, MATH 342A, 3 units, lecture, 36 students, SDSU. Fall 2018 Calculus for the Life Sciences, MATH 124, 3 units, lecture, 99 students, SDSU, Spring 2018 Calculus for the Life Sciences, MATH 124, 1 unit, lab coordinator, 4 sections, SDSU. Spring 2018 Methods of Applied Mathematics II, MATH 342B, 3 units, lecture, 27 students, SDSU. Spring 2018 Calculus for the Life Sciences, MATH 124, 3 units, lecture, 83 students, SDSU. Fall 2017 Calculus for the Life Sciences, MATH 124, 1 unit, lab coordinator, 3 sections, SDSU. Fall 2017 Fall 2017 Methods of Applied Mathematics I, MATH 342A, 3 units, lecture, 43 students, SDSU. Methods of Applied Mathematics II, MATH 342B, 3 units, lecture, 42 students, SDSU. Spring 2017 Methods of Applied Mathematics I, MATH 342A, 3 units, lecture, 52 students, SDSU. Fall 2016 Methods of Applied Mathematics II, MATH 342B, 3 units, lecture, 34 students, SDSU. Spring 2016 Methods of Applied Mathematics I, MATH 342A, 3 units, lecture, 49 students, SDSU. Fall 2015 Fluid Mechanics Laboratory, 25 students, Universitat de Barcelona. Fall 2010

Participation in Teaching Training Workshops

California State University Summer Institute: Course Redesign with Technology. Summer 2018 California State University Summer Institute: Course Redesign with Technology. Summer 2017 SDSU Center for Teaching and Learning program: Scholarly Teaching through Evidence 2016 - 2017and Practice program. Center for Teaching and Learning reading club: Brown, Roediger III, and Summer 2016 McDaniel, "Make it stick: The science of successful learning." California State University Summer Institute: Course Redesign with Technology. Summer 2017 Attended 25 SDSU Center for Teaching and Learning workshops. 2015 - 2016Workshop on Scientific Teaching. Spring 2013

Curriculum Development and Teaching Innovations

In MATH 124, Incorporated GradeScope as an online grading system; Expanded synchronous and asynchronous activities using TopHat in lectures and lab sections.

Fall 2021