

Philip (Flip) Tanedo

CONTACT INFORMATION	3054 Physics Building University of California Riverside, CA 92521, USA	951 827 6168 flip.tanedo@ucr.edu physics.ucr.edu/~flip/
RESEARCH	My research connects theories of new physics with novel experimental signatures at particle and astro-particle experiments. My primary focus is the fundamental description of dark matter.	
EMPLOYMENT	University of California, Riverside Assistant Professor, Department of Physics & Astronomy	2016 –
	University of California, Irvine Postdoctoral Scholar, Chancellor’s ADVANCE Postdoctoral Fellow	2013 – 2016
EDUCATION	Cornell University , Ithaca, New York Advisor: Csaba Csáki; <i>Doctor of Philosophy (2013)</i> , <i>Master of Science (2010)</i>	2008 – 2013
	Durham University (Josephine Butler College), Durham, UK <i>Master of Science by Research</i>	2007 – 2008
	Cambridge University (Trinity College), Cambridge, UK <i>Master of Advanced Study in Mathematics with Merit</i>	2006 – 2007
	Stanford University , Stanford, California <i>Bachelor of Science in Physics and Mathematics with Honors and Distinction</i>	2002 – 2006
FELLOWSHIPS & HONORS	UCI Chancellor’s ADVANCE Postdoctoral Fellowship	2014 – 2015
	Ford Foundation Dissertation Fellowship, Honorable Mention	2012
	Paul & Daisy Soros Fellowship for New Americans	2010 – 2012
	Ford Foundation Predoctoral Fellowship, Honorable Mention	2010
	National Science Foundation Graduate Research Fellowship	2006 – 2011
	Marshall Scholarship	2006 – 2008
	Barry M. Goldwater Scholarship	2005 – 2006
PUBLICATIONS	“DarkCapPy: Dark Matter Capture and Annihilation,” A. Green and P. Tanedo, arXiv:1808.03700 [hep-ph] , <i>accepted to Computer Physics Communications</i> .	
	“Just a Taste: Lectures on Flavor Physics,” Y. Grossman and P. Tanedo, Proceedings, 2016 Theoretical Advanced Studies Institute. 10.1142/9789813233348_0004 arXiv:1711.03624 [hep-ph] .	
	“Neutron stars at the dark matter direct detection frontier,” N. Raj, P. Tanedo and H. B. Yu, <i>Phys. Rev. D</i> 97 (2018) no.4 043006 arXiv:1707.09442 [hep-ph] .	
	“Dark Photons from Captured Inelastic Dark Matter Annihilation: Charged Particle Signatures,” J. Smolinsky and P. Tanedo, <i>Phys. Rev. D</i> 95 no.7, 075015 (2017) arXiv:1701.03168 [hep-ph] .	
	“Dark Matter Interpretation of the Fermi-LAT Observation Toward the Galactic Center,” C. Karwin, S. Murgia, T. M. P. Tait, T. A. Porter and P. Tanedo, <i>Phys. Rev. D</i> 95 , no. 10, 103005 (2017) arXiv:1612.05687 [hep-ph] .	
	“Lepton-Flavor Violating Mediators,” I. Galon, A. Kwa and P. Tanedo, <i>JHEP</i> 1703 , 064 (2017) arXiv:1610.08060 [hep-ph] .	
	“Dark Sectors 2016:Community Report,” J. Alexander <i>et al.</i> , arXiv:1608.08632 [hep-ph] .	
	“Particle Physics Models for the 17 MeV Anomaly in Beryllium Nuclear Decays,” J. L. Feng, B. Fornal, I. Galon, S. Gardner, J. Smolinsky, T. M. P. Tait and P. Tanedo, <i>Phys. Rev. D</i> 95 , no. 3, 035017 (2017) arXiv:1608.03591 [hep-ph] .	
	“Protophobic Fifth-Force Interpretation of the Observed Anomaly in ^8Be Nuclear Transitions,” J. L. Feng, B. Fornal, I. Galon, S. Gardner, J. Smolinsky, T. M. P. Tait and P. Tanedo, <i>Phys.</i>	

- Rev. Lett. **117**, no. 7, 071803 (2016) [arXiv:1604.07411 \[hep-ph\]](#).
- “Kaluza-Klein gluons at 100 TeV: NLO corrections,” B. Lillard, T. M. P. Tait and P. Tanedo, Phys. Rev. D **94**, no. 5, 054012 (2016) [arXiv:1602.08622 \[hep-ph\]](#).
- “Detecting dark matter through dark photons from the Sun: Charged particle signatures,” J. L. Feng, J. Smolinsky and P. Tanedo, Phys. Rev. D **93**, 115036 (2016) [arXiv:1602.01465 \[hep-ph\]](#).
- “Limiting SUSY compressed spectra scenarios,” A. Nelson, P. Tanedo and D. Whiteson, Phys. Rev. D **93**, 115029 (2016) [arXiv:1509.08485 \[hep-ex\]](#).
- “Dark Photons from the Center of the Earth: Smoking-Gun Signals of Dark Matter,” J. L. Feng, J. Smolinsky and P. Tanedo, Phys. Rev. D **93**, 015014 (2016) [arXiv:1509.07525 \[hep-ph\]](#).
- “On-Shell Mediators and Top-Charm Dark Matter Models for the Fermi Galactic Center Excess,” A. Rajaraman, J. Smolinsky and P. Tanedo, [arXiv:1503.05919 \[hep-ph\]](#); *submitted to Phys. Rev. D*
- “2013 ESHEP lectures on Beyond the Standard Model,” C. Csáki and P. Tanedo, Proceedings of the 2013 European School of High-Energy Physics, Parádörd, Hungary, 5–18 June 2013, edited by M. Mulders and G. Perez, CERN–2015–004 (CERN, Geneva, 2015), ISBN: 9789290834205.
- “Dynamics of 3D SUSY Gauge Theories with Antisymmetric Matter,” C. Csáki, M. Martone, Y. Shirman, P. Tanedo and J. Terning, JHEP **1408**, 141 (2014) [arXiv:1406.6684 \[hep-th\]](#)
- “Hidden On-Shell Mediators for the Galactic Center γ -Ray Excess,” M. Abdullah, A. DiFranzo, A. Rajaraman, T. Tait, P. Tanedo and A. Wijangco, Phys. Rev. D **90**, 035004 (2014) [arXiv:1404.6528 \[hep-ph\]](#)
- “Effective theory of self-interacting dark matter,” B. Bellazzini, M. Cliche and P. Tanedo, Phys. Rev. D **88**, 083506 (2013) [arXiv:1307.1129](#)
- “The Same-Sign Dilepton Signature of RPV/MFV SUSY,” J. Berger, M. Perelstein, M. Saelim and P. Tanedo, JHEP **1304**, 077 (2013) [arXiv:1302.2146 \[hep-ph\]](#)
- “Fundamental Physics at the Intensity Frontier,” J. L. Hewett, H. Weerts, R. Brock, J. N. Butler, B. C. K. Casey, J. Collar, A. de Gouvea and R. Essig *et al.*, [arXiv:1205.2671 \[hep-ex\]](#)
- “The Birds and the Bs in RS: The $b \rightarrow s\gamma$ penguin in a warped extra dimension,” M. Blanke, B. Shakya, P. Tanedo and Y. Tsai, JHEP **1208**, 038 (2012) [arXiv:1203.6650 \[hep-ph\]](#)
- “SUSY_FLAVOR v2: A Computational tool for FCNC and CP-violating processes in the MSSM,” A. Crivellin, J. Rosiek, P. H. Chankowski, A. Dedes, S. Jaeger and P. Tanedo, Comput. Phys. Commun. **184**, 1004 (2013) [arXiv:1203.5023 \[hep-ph\]](#)
- “Goldstone Fermion Dark Matter,” B. Bellazzini, C. Csaki, J. Hubisz, J. Shao and P. Tanedo, JHEP **1109**, 035 (2011) [arXiv:1106.2162 \[hep-ph\]](#)
- “Warped penguin diagrams,” C. Csaki, Y. Grossman, P. Tanedo and Y. Tsai, Phys. Rev. D **83**, 073002 (2011) [arXiv:1004.2037 \[hep-ph\]](#)
- “SUSY_FLAVOR: A Computational Tool for FCNC and CP-Violating Processes in the MSSM,” J. Rosiek, P. Chankowski, A. Dedes, S. Jager and P. Tanedo, Comput. Phys. Commun. **181**, 2180 (2010) [arXiv:1003.4260 \[hep-ph\]](#)
- “Complete one-loop predictions for $B_s \rightarrow \ell^+ \ell'^-$ in the MSSM”, A. Dedes, J. Rosiek and P. Tanedo, Phys. Rev. D **79**, 055006 (2009) [arXiv:0812.4320 \[hep-ph\]](#)

SOFTWARE

GitHub: <http://github.com/fliptanedo>.

DARKCAPPY, with A. Green

<http://github.com/agree019/DarkCapPy>

Nov. 2018

SUSY_FLAVOR, with J. Rosiek, A. Crivellin, P. Chankowski, A. Dedes, and S. Jaeger

http://www.fuw.edu.pl/susy_flavor/

Mar. 2010

Harvey Mudd Physics Colloquium, Pomona, CA	Nov. 2018
USC Physics Colloquium, Los Angeles, CA	Oct. 2018
The Small-Scale Structure of Cold (?) Dark Matter	
Invited talk, Kavli Institute for Theoretical Physics, Santa Barbara, CA	Jun. 2018
<i>“Composite Mediators”</i>	
Santa Fe Workshop: Trending Topics in HEP, Plenary talk, Santa Fe, NM	Jul. 2018
Matter Detection and Detectability: Paradigm Confirmation or Shift?	
Invited talk, Kavli Institute for Theoretical Physics, Santa Barbara, CA	Apr. 2018
Particle Theory Seminar, Lawrence Berkeley National Laboratory, Berkeley, CA	Apr. 2018
American Physical Society April Meeting, Columbus, OH	Apr. 2018
T-2 Seminar, Los Alamos National Laboratory, Los Alamos, NM	Mar. 2018
<i>“Light Mediators to Dark Sectors”</i>	
Invited talk, American Physical Society April Meeting, Columbus, OH	Apr. 2018
<i>“Light mediators and terrestrial dark matter capture”</i>	
New Directions in Dark Matter and Neutrino Physics,	
Invited Talk, Perimeter Institute, Waterloo, CA	Jul. 2017
<i>“Models, Exotic Signatures and Proposed Searches”</i>	
XI International Conference on the Interconnection between Particle Physics and Cosmology,	
Invited Plenary Talk, Corpus Christi, TX	May 2017
<i>“Composite Higgs, Composite Mediators”</i>	
DM at LHC, UC Irvine, CA	Apr. 2017
<i>“New Physics in Nuclear Transitions? The 17 MeV Anomaly in ^8Be”</i>	
Focus Workshop on Particle Physics and Cosmology, CTPU-IBS, Daejeon City, Korea	Dec. 2016
Beyond the Standard Model Workshop, MCTP, Ann Arbor, MI	Oct. 2016
LHC Awakens: A New Energy Frontier, Aspen Center for Physics Aspen, CO	Sep. 2016
Latin American Webinars on Physics, Google Hangouts on the Air (webcast)	Sep. 2016
LHC Run II Workshop, Santa Fe, NM	July. 2016
Cornell Particle Theory Seminar, Ithaca, NY	May. 2016
UMD Particle Theory Seminar, College Park, MD	May. 2016
UC Davis Theory Lunch, Davis, CA	May. 2016
SLAC Dark Sectors 2016 Workshop, Menlo Park, CA	April. 2016
<i>“Dark Sunshine”</i>	
Cal State Fullerton Physics Colloquium, Fullerton, CA	Mar. 2016
CSU Long Beach, Physics Colloquium, Long Beach, CA	Mar. 2016
<i>“Dark Photons from the Center of the Earth”</i>	
UT Austin Seminar, Austin, TX	Feb. 2017
UC Davis Theory Seminar, Davis, CA	May. 2016
PIKIO Workshop, Cincinnati, OH	Feb. 2016
MCTP Brown Bag Seminar, Ann Arbor, MI	Feb. 2016
SLAC Theory Seminar, Menlo Park, CA	Feb. 2016
UC Riverside Theory Seminar, Riverside, CA	Dec. 2015
TRIUMF Theory Seminar, Vancouver, Canada	Dec. 2015
UC Santa Barbara HEP Experiment & Phenomenology Seminar	Sep. 2015
New Directions to Shed Light on Dark Matter, Aspen, CO	Sep. 2015
SUSY 2015: 23rd Conference on SUSY & Unification, Lake Tahoe, CA	Aug. 2015
Anticipating 14 TeV: Insights from the LHC & Beyond, Munich, Germany	Jul. 2015
<i>“On-Shell Mediators” / “Heavy, Hidden Hooperon”</i>	
Fermilab HEP Theory Seminar, Batavia, IL	Dec. 2015
UC Davis HEFTI Seminar	Mar. 2015
Santa Cruz Institute for Particle Physics Theory Seminar, UC Santa Cruz	Mar. 2015
Santa Fe Summer Workshop: LHC After the Higgs, Santa Fe, NM	Jul. 2014
UCLA HEP Theory Seminar, Los Angeles, CA	Jun. 2014
UC Riverside High Energy Physics Seminar	May 2014
SLAC Theory Seminar, Menlo Park, CA	May 2014

Berkeley Center for Theoretical Physics Seminar	May 2014
“Charged Lepton Flavor Violation in RS”	
International Workshop for Charged Lepton Flavor Violation, Irvine, CA	May 2014
“Stealthy Composite Stops”	
Perimeter Institute Particle Physics Seminar, Waterloo, Canada	Nov. 2012
“Goldstone Fermion Dark Matter”	
UC Davis HEFTI Seminar	Oct. 2012
Harvard Particle Theory Seminar	Feb. 2012
UC Irvine Joint Particle Seminar	Jan. 2012
Cornell Theory Group Seminar	Sep. 2011
“The Birds and the Bs in RS”	
Phenomenology 2012 Symposium, Pittsburgh, PA	May 2012
“RS @ LHC”	
Cornell CMS Future Directions Workshop, Ithaca, NY	Jan. 2012
“Goldstone Fermion Dark Matter”	
SUSY 2011: 19th Conference on SUSY & Unification, Fermilab	Aug. 2011
“Flight of the Warped Penguins”	
Phenomenology 2011 Symposium, Madison, WI	May 2011
Cornell Particle Theory Lunch Seminar	Feb. 2011
Maryland Theory Seminar	Mar. 2011
DAMTP–Camendish Phenomenology Seminar, Cambridge, UK	Feb. 2011
“The Birds and the Bs: $B_s \rightarrow \mu\mu$ in the MSSM”	
Theoretical Advanced Study Institute, Boulder, CO	Jun. 2009
Cornell Particle Theory Lunch Seminar	Feb. 2009
IOP HEPP: Beauty Physics in the UK, Lancaster, UK	Nov. 2008
U. Ioannina Div. Theoretical Physics Journal Club, Greece	Oct. 2008
LHCb UK Meeting, Durham, UK	Dec. 2007

ORGANIZED
ACTIVITIES

Workshop Organizer: Southern California Beyond the Standard Model	
SoCal BSM 2017, UCR, Riverside, CA	Apr. 2017
SoCal BSM 2019, UCLA, Los Angeles, CA	Jan. 2019

WORKSHOPS &
CONFERENCES

APS Bridge/National Mentoring Community Conference, Stanford, CA	Nov. 2018
Flavor of New Physics in Collisions, Aspen Center for Physics, Aspen, CO	Aug. 2018
Santa Fe Workshop: Trending Topics in HEP, Santa Fe, NM	Jul. 2018
American Physical Society April Meeting, Columbus, OH	Apr. 2018
Dark Matter in Southern California IV Symposium, Pasadena, CA	Sep. 2017
New Directions in Dark Matter and Neutrino Physics, Perimeter Institute, Waterloo, CA	Jul. 2017
Weak Interactions and Neutrinos, UCI, Irvine, CA	Jun. 2017
XI International Conference on Particle Physics and Cosmology, Corpus Christi, TX	May 2017
UC President’s Postdoctoral Fellow Spring Retreat, Lake Arrowhead, CA	Apr. 2017
Dark Matter at LHC, UCI, Irvine, CA	Apr. 2017
Southern California Beyond the Standard Model (organizer), UCR, Riverside, CA	Apr. 2017
Beyond WIMPs: from Theory to Detection, Simons Center, Stony Brook, NY	Mar. 2017
Focus Workshop on Particle Physics and Cosmology, CTPU-IBS, Korea	Dec. 2016
Beyond the Standard Model Workshop, MCTP, Ann Arbor, MI	Oct. 2016
The LHC Awakens, Aspen Center for Physics, Aspen, CO	Aug. 2016
Santa Fe Summer Workshop: LHC Run II, Santa Fe, NM	Jul. 2016
New Accelerators for the 21st Century, KITP, Santa Barbara CA	Jun. 2016
SLAC Dark Sectors 2016 Workshop, Menlo Park, CA	Apr. 2016
PIKIO Workshop, Cincinnati, OH	Feb. 2016

UCLA Dark Matter 2016, Westwood, CA	Feb. 2016
Science Hack Day: San Francisco, CA	Oct. 2015
UCI Data Science Initiative: Predictive Modeling in Python, Irvine, CA	Oct. 2015
UC PFP Fall Conference, Oakland, CA	Sep. 2015
New Directions to Shed Light on Dark Matter, Aspen Center for Physics, Aspen, CO	Sep. 2015
Supersymmetry 2015, Lake Tahoe, CA	Aug. 2015
MIAPP: Anticipating 14 TeV, Munich, Germany	Jul. 2014
UC PFP Academic Retreat, Lake Arrowhead, CA	Apr. 2015
UCI Data Science Initiative: Software Carpentry	Feb. 2015
UC PFP 30th Anniversary Meeting, Berkeley, CA	Oct. 2014
Model Building in the LHC Era, Aspen Center for Physics, Aspen, CO	Aug. 2014
Santa Fe 2014 Summer Workshop, Santa Fe, NM	Jul. 2014
SLAC Workshop on Physics at a 100 TeV Collider, Menlo Park, CA	Apr. 2014
Dark Matter in Southern California III Symposium, Pasadena, CA	Apr. 2014
Dark Matter in Southern California II Symposium, Pasadena, CA	Sep. 2013
TeV Particle Astrophysics, Irvine, CA	Aug. 2013
Prospects in Theoretical Physics, Princeton, NJ	Jul. 2013
Communicating Science 2013, Cambridge, MA	Jun. 2013
Phenomenology 2012 Symposium, Pittsburgh, PA	May 2012
Fundamental Physics at the Intensity Frontier, Rockville, MD	Dec. 2011
Soros Fellowship for New Americans Fall Conference, OSI, New York	Oct. 2011
Supersymmetry 2011, Fermilab, Batavia, IL	Sep. 2011
First Year of the LHC, KITP, Santa Barbara, CA	Aug. 2011
SUSY Breaking '11, CERN, Geneva, Switzerland	May 2011
Phenomenology 2011 Symposium, Madison, WI	May 2011
Soros Fellowship for New Americans Fall Conference, OSI, New York	Oct. 2010
Emerging problems in particle phenomenology, ITS at CUNY	Apr. 2010
Theoretical Advanced Studies Institute, University of Colorado at Boulder	Jun 2009
International Workshop on SUSY Breaking, Durham University IPPP	Apr. 2009
Young Researchers in Mathematics (Beyond Part III), Cambridge University	Apr. 2009
ICTP School on the Gauge/Gravity Correspondence, Trieste	May 2008
Marshall Colloquium, Association of Commonwealth Universities, London, UK,	May 2008
5th Part III Return Conference, Cambridge University	Apr. 2008
IOP HEPP Group Annual Meeting, University of Lancaster	Apr. 2008
Higgs–Maxwell Workshop: EWSB, Royal Society of Edinburgh	Feb. 2008
Young Experimentalists and Theorists Institute, Durham University IPPP	Jan. 2008
IPPP Annual Theory Meeting, Durham University	Dec. 2007
UK LHCb Annual Meeting, Durham University IPPP	Dec. 2007
Cosener's Forum on Heavy Flavor Physics, Cosener's House, Abingdon, UK	Jun. 2007

TEACHING

UC Riverside , Riverside, CA	
<i>Lecturer</i> , Physics 165: Particle Physics	Winter 2018, 2019
<i>Lecturer</i> , Physics 231: Methods in Theoretical Physics	Fall 2016, 2017, 2018
<i>Lecturer</i> , Physics 208: General Relativity	Winter 2017
<i>Lecturer</i> , Physics 177: Computational Methods for Physical Sciences	Spring 2017, 2018
Cornell University , Ithaca, NY	
<i>Teaching Assistant</i> , Physics 3318: Analytical Mechanics	Spring 2013
<i>Teaching Assistant</i> , Physics 3327: Advanced Electricity & Magnetism	Fall 2012
<i>Course Grader</i> , Physics 7651: Quantum Field Theory I	Fall 2011

UC Berkeley, Berkeley, CA
Course Grader, Physics 137A: Quantum Mechanics Summer 2006

Stanford University, Stanford, CA
Teaching Assistant, Physics 121: Electrodynamics II Spring 2006
Course Grader, Physics 161: Cosmology Spring 2006
Course Assistant, The Elementary Particles and their Fundamental Interactions Summer 2004

RECENT PRESS “Particles crossing to our world could open portal to dark-matter realm,”
Daniel Cossins *New Scientist* 28 Nov. 2018
“Telling the Truth” UCR Magazine Nov. 2018
“Office Hours: This dark matter expert keeps his office vibe lighthearted,”
Omar Shamout UCR Magazine Nov. 2018
“Dark Matter Eludes Particle Physicists” NPR Science Friday Jun. 2018
“What’s the Universe Made of?” NOVA Wonders May 2018
“*Nova Wonders* Asks ‘What’s the Universe Made Of’ Tonight,”
Sarah Lewin, *Space.com* & Facebook Live interview May 2018
“NOVA Wonders Episode to Feature UCR Expert on Dark Matter,”
Iqbal Pittalwala, *UCR Today* Apr. 2018
“Physicists Win Two Awards at Science Hack Day,” Iqbal Pittalwala, *UCR Today* Oct. 2017
“UCR physicists win ‘Best in Show’ and ‘Most Whimsical’ at Science Hack Day,”
Cydney Contreras, *The Highlander* Oct. 2017
“Physicists Offer Explanation for Diverse Galaxy Rotations,”
Iqbal Pittalwala, *UCR Science News* Sep. 2017
“Generation: First” *UCR Magazine*, Win. 2018 (Vol 13, No. 1)
“Protophobic Fifth-Force Interpretation of the Observed Anomaly in ^8Be ,”
Physical Review Letters; Altmetric attention score¹: 977 Aug. 2016
“Nuclear Puzzle May Be Clue to Fifth Force”, Sean Nelson *UCR Today* August 17, 2016
Featured on pinoyscientists.com (Filipino Scientists) June 2016
“One Higgs is the loneliest number”, Katie Elyce Jones, *Symmetry Magazine* July 30, 2015
“Hard times for theorists in a post-Higgs world”, Andrew Grant, *Science News* June 13, 2013

REFEREEING Referee record is available at <https://publons.com/author/637273/philip-tanedo>.

Referee: *Physics Review D* (APS) 2014, 2015, 2017, 2018
Referee: *European Physical Journal C* (Springer) 2014, 2017 – 2018
Referee: *Physics of the Dark Universe* (Elsevier) 2013, 2015
Referee: *Annals of Physics* (Elsevier) 2013
Referee: *Europhysics Letters* (EPS) 2012

SERVICE **Application Reviewer:** UC President’s Postdoctoral Fellowship Program 2018 – 2019
Physics Reader: Paul & Daisy Soros Fellowships for New Americans 2018 – 2019
Organizing Committee: AIP Communicating Science Workshop 2018 – 2019
Mentor: APS National Mentoring Community Mentor 2018 –

UNIVERSITY **Faculty Adviser:** UCR Communicating Science Workshop Planning 2018 –
SERVICE **Mentor:** UCR Graduate Student Mentoring Program 2017 – 2018
Discussion leader: UCR GradEdge/JumpStart summer journal club 2017
Led a journal club to prepare incoming under-represented minority grad students.
Media contact: UCR Experts on Demand 2016 – 2018

¹Top 5% of all research outputs, #5 output from Phys. Rev. Lett., 99th percentile for outputs of the same age and source; <http://aps.altmetric.com/details/6976772>

DEPARTMENT
SERVICE

Advisor: Physics Organization for Women and the Underrepresented	2018 –
Committee: Website	2017 –
Committee: Outreach	2017 –
Committee: Graduate Diversity	2017 –
Organizer: UCR Physics Hack Day	2016 –
Committee: Co-Chair: Summer Academy for HS teachers	2016 – 2018
Committee: Early Universe Hiring Committee	2016 – 2017
Committee: Chair: Open House Committee	2016 –
Committee: UCR-CC Bridge	2016 – 2017
Committee: Ernest Ma Retirement Symposium	2016 – 2017
Committee & Advising: Undergraduate Advisor	2016 – 2017
Social Media Outreach: Particle Theory Twitter (UCR_HEP_Theory)	2017 –

OUTREACH

Adoptee: ΣΠΣ Adopt-A-Physicist program	2018 –
Participant (UCR leader): Science Hack Day (won best in show, most whimsical)	2017
Organizer: ParticleBites <i>en Español</i> , a Spanish-language physics outreach blog Spanish-language outreach blog for particle physics.	2017 –
Mentor: Paul & Daisy Soros Fellowship for New Americans	2017 – 2018
Discussion leader: UC President's Fellow Spring Retreat; career navigation	2017
Organizer: Physical & Natural Science Book Club (Cellar Door Bookstore) Monthly discussion of popular science books with members of the community	2016 –
Science Ambassador: Science Hack Day San Francisco One of six invited scientists sponsored by Gordon & Betty Moore Foundation	2015
Blogger, organizer, editor: ParticleBites, a research digest Leads team of students who write about physics for the public.	2013 –
Blogger: US/LHC Blogs (Quantum Diaries), public outreach blog	2009 – 2012
Lecturer: Particle Physics for Undergrads (Cornell undergraduate research program)	2012
Lecturer: Stanford ESP SPLASH! and SHEP high school courses on particle physics	2005

OUTREACH TALKS
& PANELS

<i>"My New American Story"</i> Paul & Daisy Soros Fellowships for New Americans Fall Conference Story Slam	Oct. 2018
<i>"The Physics of Star Wars"</i> UCR ARTSblock film screening and discussion	May 2018
<i>"Breaking into Academia"</i> UCR TRIO Scholars Program	Apr. 2018
<i>"First-Gen Day Faculty Panel"</i> UCR First Generation Friday Panel	Jan. 2018
<i>"Surviving the Academic Job Market"</i> UCR Grad Success Panel	Nov. 2017
<i>"First Generation Academics"</i> UCR Grad Success Panel	Nov. 2017
<i>"I have no idea: A guide to finding your way in science"</i> Middle School Symposium talk, Riverside STEM Academy High School Symposium talk, Riverside STEM Academy	Sep. 2017 Sep. 2017
<i>"Quantum Electrodynamics with Feynman Diagrams"</i> UCR Summer Physics Teacher Academy	Jun. 2017
<i>"Applying to Graduate School"</i> UCR Society of Physics Students	May 2017
<i>"Communicating through Social Media"</i> Communicating Science: San Diego, Invited Panelist	Sep. 2016
<i>"Data vs. Dark Matter: Opportunities for Open Science in Particle Physics"</i> Science Hack Day, San Francisco (Gordon & Betty Moore Science Ambassador)	Oct. 2015

“Balancing writing your dissertation and finding a postdoc position” Panelist, UCI Graduate Division & ADVACE Program	Nov. 2014
“Here be dragons: [fairy] tales from beyond the Standard Model” Cornell Society of Physics Students	Apr. 2013
“The Physics of Angels & Demons” Cornell Institute for Physics Teachers	Jul. 2009
“Applying for Graduate Fellowships Information Session” Panelist, Cornell Physics Department	Oct. 2008
“Quantum penguins hint at the nature of matter and antimatter” Marshall Aid Commemoration Commission Colloquium, London, UK	May 2008

ADVISING

Sergio Garcia , APS National Mentoring Community, UC Riverside	2018 –
Alexandria Costantino , Ph.D student, UC Riverside	2018 –
Adam Green , Ph.D student, UC Riverside	2018 –
Kuntal Pal , Ph.D student, UC Riverside	2018 –
Ian Chaffey , Ph.D student, UC Riverside	2017 –
Syris Norelli , undergraduate researcher, UC Riverside	2017 – 2018
Adam Green , undergraduate researcher, UC Riverside	2016 – 2017
Ran Huo , Postdoctoral Scholar, UC Riverside	2016 – 2018