

Philip (Flip) Tanedo

CONTACT INFORMATION	3054 Physics Building University of California Riverside, CA 92521, USA	951 827 6168 flip.tanedo@ucr.edu theory.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 <i>Mentors: Timothy Tait, Jonathan Feng</i>	2013 – 2016
EDUCATION	Cornell University , Ithaca, New York Advisor: Csaba Csáki; <i>Doctor of Philosophy (2013), Master of Science (2010)</i>	2008 – 2013
	Durham University (Josephine Butler College), Durham, UK Advisor: Athanasios Dedes; <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	National Science Foundation CAREER Award <i>NSF's most prestigious awards for early-career faculty with the potential to serve as academic role models in research and education and to lead advances in the mission of their department.</i>	2021–2026
	UCR Junior Faculty Excellence in Teaching Award <i>Awarded by the Academy of Distinguished Teaching to junior faculty. 3 awards per year.</i>	2021
	Hellman Fellowship <i>Awarded by the Hellman Fellows Fund to support to junior faculty who show capacity for great distinction in their research. 7 UCR fellows per year.</i>	2020 – 2021
	UCR Graduate Division: Commitment to Graduate Diversity Award <i>For faculty who champion efforts to promote a diverse and inclusive graduate student and campus climate. Up to 2 awards per year.</i>	2020
	UCI Chancellor's ADVANCE Postdoctoral Fellowship <i>For candidates who show strong promise for faculty appointment and a commitment to equal opportunity. Drawn from finalists of the UC President's Postdoctoral Fellowship Program.</i>	2014 – 2015
	Ford Foundation Dissertation Fellowship, Honorable Mention	2012
	Paul & Daisy Soros Fellowship for New Americans <i>For first- and second-generation immigrants who are poised to make significant contributions to society, culture or their academic field. 30 fellows per year.</i>	2010 – 2012
	Ford Foundation Predoctoral Fellowship, Honorable Mention	2010
	National Science Foundation Graduate Research Fellowship	2006 – 2011
	Marshall Scholarship <i>For Americans of high ability to pursue graduate study in the UK. 50 scholars per year.</i>	2006 – 2008
	Barry M. Goldwater Scholarship	2005 – 2006
PUBLICATIONS AT UCR	Authors are listed in alphabetical order as is standard in particle physics. "Efficient sampling of constrained high-dimensional theoretical spaces with machine learning," J. Hollingsworth, M. Ratz, P. Tanedo and D. Whiteson, arXiv:2103.06957	

Submitted to PRX. P.T. initiated the project and led the theoretical aspects of the investigation.

“Continuum-Mediated Self-Interacting Dark Matter,”

I. Chaffey, S. Fichet and P. Tanedo, [arXiv:2102.05674](#)

P.T. led all aspects of this study and mentored junior collaborators.

“Dark kinetic heating of neutron stars from contact interactions with relativistic targets,”

A. Joglekar, N. Raj, P. Tanedo and H. B. Yu

Phys. Rev. D **102**, no.12, 123002 (2020) [arXiv:2004.09539](#)

P.T. led all aspects of this study and mentored junior collaborators.

“Effective Field Theory in AdS: Continuum Regime, Soft Bombs, and IR Emergence,”

A. Costantino, S. Fichet and P. Tanedo

Phys. Rev. D **102**, no.11, 115038 (2020) [arXiv:2002.12335](#)

P.T. is the senior scientist, mentored junior collaborators, and led the phenomenology study.

“Relativistic capture of dark matter by electrons in neutron stars,”

A. Joglekar, N. Raj, P. Tanedo and H. B. Yu

Phys. Lett. **B**, 135767 (2020) [arXiv:1911.13293](#)

P.T. led all aspects of this study and mentored junior collaborators.

“Exotic Lepton-Flavor Violating Higgs Decays,”

J. A. Evans, P. Tanedo and M. Zakeri

JHEP **01**, 028 (2020) [arXiv:1910.07533](#)

P.T. is the senior scientist; he developed the theoretical framework and mentored collaborators.

A. Costantino, S. Fichet and P. Tanedo

“Exotic Spin-Dependent Forces from a Hidden Sector,”

JHEP **03**, 148 (2020) [arXiv:1910.02972](#)

P.T. is the senior scientist; he mentored junior collaborators.

“Vector Self-Interacting Dark Matter,”

I. Chaffey and P. Tanedo, Phys. Rev. D **101** (2020) no.7 075005 [arXiv:1907.10217](#)

P.T. is the senior scientist, he mentored junior collaborators, developed theoretical framework.

“The Warped Dark Sector,”

P. Brax, S. Fichet and P. Tanedo, Phys. Lett. **B** **798**, 135012 (2019) [arXiv:1906.02199](#)

P.T. is the senior scientist; he mentored junior collaborators, led model-building, and guided calculations.

“DarkCapPy: Dark Matter Capture and Annihilation,”

A. Green and P. Tanedo,

Comput. Phys. Commun. **242**, 120-131 (2019) [arXiv:1808.03700](#)

P.T. is the senior scientist; he initiated the project, mentored undergraduate honors student A.G., and developed the theoretical framework.

“Just a Taste: Lectures on Flavor Physics,”

Y. Grossman and P. Tanedo, published in *Proceedings, 2016 Theoretical Advanced Studies Institute*. ISBN: 9789813233331, [arXiv:1711.03624](#)

P.T. led the crafting and presentation of these lectures

“Neutron stars at the dark matter direct detection frontier,”

N. Raj, P. Tanedo and H. B. Yu,

Phys. Rev. D **97** (2018) no.4 043006 [arXiv:1707.09442](#)

P.T. initiated the project and led the collaboration.

“Dark Photons from Captured Inelastic Dark Matter Annihilation: Charged Particle Signatures,”

J. Smolinsky and P. Tanedo, Phys. Rev. D **95** no.7, 075015 (2017) [arXiv:1701.03168](#)

P.T. is the senior scientist; he initiated the project and mentored junior collaborators.

“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,

Phys. Rev. D **95**, no. 10, 103005 (2017) [arXiv:1612.05687](#)

P.T. led the particle physics interpretation.

“Lepton-Flavor Violating Mediators,”

I. Galon, A. Kwa and P. Tanedo, JHEP **1703**, 064 (2017) [arXiv:1610.08060](#)

P.T. initiated the project, developed the theoretical framework, and led the collaboration.

“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, Phys. Rev. D **95**, no. 3, 035017 (2017) [arXiv:1608.03591](#)

P.T. collaboratively developed the model, led the consolidation of data, and led the writing of the manuscript.

PUBLICATIONS
BEFORE UCR

Authors are listed in alphabetical order as is standard in particle physics.

“Dark Sectors 2016 Workshop: Community Report,”

J. Alexander *et al.*, [arXiv:1608.08632](#)

“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,

Phys. Rev. Lett. **117**, no. 7, 071803 (2016) [arXiv:1604.07411](#)

“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](#)

“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](#)

“Limiting SUSY compressed spectra scenarios,”

A. Nelson, P. Tanedo and D. Whiteson, Phys. Rev. D **93**, 115029 (2016) [arXiv:1509.08485](#)

“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](#)

“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](#)

“2013 ESHEP lectures on Beyond the Standard Model,”

C. Csáki and P. Tanedo, Proceedings of the 2013 European School of High-Energy Physics, Parádfürdő, Hungary, 5–18 June 2013, edited by M. Mulders and G. Perez, CERN–2015–004 (CERN, Geneva, 2015), ISBN: 9789290834205. [arXiv:1602.04228](#)

“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](#)

“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](#)

“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](#)

“Fundamental Physics at the Intensity Frontier,”

J. L. Hewett, H. Weerts, R. Brock, J. N. Butler, B. C. K. Casey, J. Collar, *et al.*,

Proceedings of the 2011 workshop on Fundamental Physics at the Intensity Frontier, [arXiv:1205.2671](#)

“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](#)

“*SUSY_FLAVOR v2: A Computational tool for FCNC and CP-violating processes in the MSSM*,”
A. Crivellin, P. H. Chankowski, A. Dedes, S. Jaeger, J. Rosiek, and P. Tanedo,
Comput. Phys. Commun. **184**, 1004 (2013) [arXiv:1203.5023](#)

“*Goldstone Fermion Dark Matter*,”
B. Bellazzini, C. Csaki, J. Hubisz, J. Shao and P. Tanedo,
JHEP **1109**, 035 (2011) [arXiv:1106.2162](#)

“*Warped penguin diagrams*,”
C. Csaki, Y. Grossman, P. Tanedo and Y. Tsai,
Phys. Rev. D **83**, 073002 (2011) [arXiv:1004.2037](#)

“*SUSY_FLAVOR: A Computational Tool for FCNC and CP-Violating Processes in the MSSM*,”
P. Chankowski, A. Dedes, S. Jager, J. Rosiek, and P. Tanedo,
Comput. Phys. Commun. **181**, 2180 (2010) [arXiv:1003.4260](#)

“*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](#)

INVITED TALKS

“*Some [likely] Wrong Ideas About Dark Matter and What They Teach Us*”
Colloquium, UCR Physics & Astronomy Department, Riverside, CA Oct. 2021

“*The Invisible Universe and You*”
Invited Talk, UCR Hellman Fellows Symposium, Riverside, CA Mar. 2021

“*Warped Dark Sectors*”
Invited Talk, A Rainbow of Dark Sectors, Aspen Center for Physics, Aspen, CO Mar. 2021
Invited Seminar, Korea Institute for Advanced Studies, Seoul, Korea Nov. 2020

“ *e^+e^- Production of Dark Sector Particles*”
Americas Workshop on Linear Colliders 2020, SLAC, Menlo Park, CA Oct. 2020

“*Dark Matter Heating Neutron Stars: the Electronic Frontier*”
Invited talk, Particle Seminar, Brookhaven National Lab, NY Feb. 2020

“*How Not to Discover the WIMP*” / “*Whatever Happened to the WIMP of Tomorrow?*”
Invited Colloquium, Cornell Physics Department, Ithaca, NY Oct. 2020
Colloquium, UCR Physics & Astronomy Department, Riverside, CA Oct. 2020
Invited Colloquium, Aspen Center for Physics, Aspen, CO Jun. 2019
Invited Plenary, Samahang Pisika ng Pilipinas Annual Conference, Philippines May. 2019
National Institute for Physics/UP Diliman, Philippines May. 2019
Sam Houston State University Physics Seminar, Huntsville, TX Apr. 2019
University of Arizona Student Selected Physics Colloquium, Tucson, AZ Apr. 2019
University of Louisiana Physics Seminar, Lafayette, LA Apr. 2019

“*Vector Self-Interacting Dark Matter*”
Invited talk, 2019 Mitchell Conference, College Station, TX May. 2019
Texas A&M Mitchell Institute HEP Seminar, College Station, TX Apr. 2019

“*Dark Matter Complementarity / Is the WIMP Dead?*”
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

“*Composite Mediators*”
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

“*Light Mediators to Dark Sectors*”

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 Beyond the Standard Model Workshop, MCTP, Ann Arbor, MI LHC Awakens: A New Energy Frontier, Aspen Center for Physics Aspen, CO Latin American Webinars on Physics, Google Hangouts on the Air (webcast) LHC Run II Workshop, Santa Fe, NM Cornell Particle Theory Seminar, Ithaca, NY UMD Particle Theory Seminar, College Park, MD UC Davis Theory Lunch, Davis, CA SLAC Dark Sectors 2016 Workshop, Menlo Park, CA	Dec. 2016 Oct. 2016 Sep. 2016 Sep. 2016 July. 2016 May. 2016 May. 2016 May. 2016 April. 2016
<i>“Dark Sunshine”</i> Cal State Fullerton Physics Colloquium, Fullerton, CA CSU Long Beach, Physics Colloquium, Long Beach, CA	Mar. 2016 Mar. 2016
<i>“Dark Photons from the Center of the Earth”</i> UT Austin Seminar, Austin, TX UC Davis Theory Seminar, Davis, CA PIKIO Workshop, Cincinnati, OH MCTP Brown Bag Seminar, Ann Arbor, MI SLAC Theory Seminar, Menlo Park, CA UC Riverside Theory Seminar, Riverside, CA TRIUMF Theory Seminar, Vancouver, Canada UC Santa Barbara HEP Experiment & Phenomenology Seminar New Directions to Shed Light on Dark Matter, Aspen, CO SUSY 2015: 23rd Conference on SUSY & Unification, Lake Tahoe, CA Anticipating 14 TeV: Insights from the LHC & Beyond, Munich, Germany	Feb. 2017 May. 2016 Feb. 2016 Feb. 2016 Feb. 2016 Dec. 2015 Dec. 2015 Sep. 2015 Sep. 2015 Aug. 2015 Jul. 2015
<i>“On-Shell Mediators” / “Heavy, Hidden Hooperon”</i> Fermilab HEP Theory Seminar, Batavia, IL UC Davis HEFTI Seminar Santa Cruz Institute for Particle Physics Theory Seminar, UC Santa Cruz Santa Fe Summer Workshop: LHC After the Higgs, Santa Fe, NM UCLA HEP Theory Seminar, Los Angeles, CA UC Riverside High Energy Physics Seminar SLAC Theory Seminar, Menlo Park, CA Berkeley Center for Theoretical Physics Seminar	Dec. 2015 Mar. 2015 Mar. 2015 Jul. 2014 Jun. 2014 May 2014 May 2014 May 2014
<i>“Charged Lepton Flavor Violation in RS”</i> International Workshop for Charged Lepton Flavor Violation, Irvine, CA	May 2014
<i>“Stealthy Composite Stops”</i> Perimeter Institute Particle Physics Seminar, Waterloo, Canada	Nov. 2012
<i>“Goldstone Fermion Dark Matter”</i> UC Davis HEFTI Seminar Harvard Particle Theory Seminar UC Irvine Joint Particle Seminar Cornell Theory Group Seminar	Oct. 2012 Feb. 2012 Jan. 2012 Sep. 2011
<i>“The Birds and the Bs in RS”</i>	

	Phenomenology 2012 Symposium, Pittsburgh, PA	May 2012
	“ <i>RS @ LHC</i> ”	
	Cornell CMS Future Directions Workshop, Ithaca, NY	Jan. 2012
	“ <i>Goldstone Fermion Dark Matter</i> ”	
	SUSY 2011: 19th Conference on SUSY & Unification, Fermilab	Aug. 2011
	“ <i>Flight of the Warped Penguins</i> ”	
	Phenomenology 2011 Symposium, Madison, WI	May 2011
	Cornell Particle Theory Lunch Seminar	Feb. 2011
	Maryland Theory Seminar	Mar. 2011
	DAMTP–Cavendish Phenomenology Seminar, Cambridge, UK	Feb. 2011
	“ <i>The Birds and the B_s: $B_s \rightarrow \mu\mu$ in the MSSM</i> ”	
	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
INVITED LECTURES	26th Fr. Ciriaco Pedrosa, O.P. Memorial Lecture Series and 8th International Symposium on Mathematics and Physics, University of Santo Tomas, Philippines	Nov. 2021
	<i>Lecture on theoretical particle physics.</i>	
	TRISEP Lectures on BSM Physics, TRIUMF, Vancouver	Jul. 2019
	<i>Lecture on beyond the Standard Model physics.</i>	
WORKSHOPS & CONFERENCES	Neutrinos as a Portal to New Physics and Astrophysics, KITP, Santa Barbara CA	Mar. 2022
	Snowmass Theory Frontier Meeting, KITP, Santa Barbara CA	Feb. 2022
	APS IDEA October Workshop, Remote Meeting, American Physical Society	Oct. 2021
	Dark Matter from the Laboratory to the Cosmos, Aspen Center for Physics, Aspen, CO	Aug. 2021
	A Rainbow of Dark Sectors, Aspen Center for Physics, Aspen, CO	Mar. 2021
	Americas Workshop on Linear Colliders 2020, Remote meeting, SLAC, Menlo Park, CA	Jun. 2021
	Phenomenology Symposium (session chair), Remote meeting, University of Pittsburgh, PA	May 2021
	APS IDEA Network Launch Meeting, Remote meeting, American Physical Society	Jun. 2020
	Southern California Beyond the Standard Model, UCI, Irvine, CA	Sep. 2019
	KITP Origin of the Vacuum Energy & Electroweak Scales, Santa Barbara, CA	Jun. 2019
	Aspen Center for Physics, Aspen, CO	Jun. 2019
	Samahang Pisika ng Pilipinas (Philippine Physics Society) Conference, Philippines	Jun. 2019
	Mitchell Conference, Texas A&M University, College Station, TX	May 2019
	KITP Follow-On Workshop (CDM18), Santa Barbara, CA	Mar. 2019
	Southern California Beyond the Standard Model (organizer), UCLA, Los Angeles, CA	Jan. 2019
	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
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	
ORGANIZED ACTIVITIES	Workshop Co-organizer: Dark Pollica Workshop on Dark Matter, Pollica, Italy	2022	
	Workshop Co-organizer: Communicating Science AIP, College Park, MD	Sep. 2019	
	Fundamental Physics Innovation Award: Gordon & Betty Moore Foundation/APS Hosting Sylvain Fichet (Travel Award), UCR, Riverside, CA	Aug. 2019	
	Hosting Benjamin Nachmann (Visitor Award), UCR, Riverside, CA	Jan. 2019	
	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	
OTHER ACTIVITIES	UCR Center for Ideas & Society Academic Book Club <i>UCR program for cross-discipline critical inquiry and discussions.</i>		
	<i>White Kids</i> (organizer, 6 members)	Nov. 2021	
	<i>The Problem with Everything</i> (organizer, 6 members)	Feb. 2021	
	<i>iGen</i> (participant, 7 members)	Oct. 2019	
	Perry Link Seminar <i>"What Are the Intrinsic Rewards of Our Work?" seminar.</i> <i>12 invited faculty meet for dinner and cross-discipline discussions.</i>	Apr.–Jun. 2019	
TEACHING	UC Riverside, Riverside, CA		
	<i>Instructor, Physics 165: Particle Physics</i>	Spr. 2021	
	<i>Instructor, Physics 017: Linear Algebra for Physics</i>	Spr. 2021	
	<i>Instructor, Physics 231: Methods in Theoretical Physics</i>	Fall 2021	
	<i>Instructor, Honors 018: Poetry for Physicists (Ignition Seminar)</i>	Fall 2021	
	<i>Instructor, Physics 40B: General Physics</i>	Win. 2021	
	<i>Instructor, Physics 231: Methods in Theoretical Physics</i>	Fall 2020	
	<i>Instructor, Physics 40B: General Physics</i>	Spr. 2020	
	<i>Instructor, Physics 230B: Quantum Field Theory</i>	Win. 2020	
	<i>Instructor, Physics 165: Particle Physics</i>	Win. 2020	
	<i>Instructor, Honors 018: Poetry for Physicists (Ignition Seminar)</i>	Fall 2019	
	<i>Instructor, Physics 231: Methods in Theoretical Physics</i>	Fall 2019	
	<i>Instructor, Physics 262: Special Topics: Group Theory</i>	Win. 2019	
	<i>Instructor, Physics 231: Methods in Theoretical Physics</i>	Fall 2018	
	<i>Instructor, Physics 177: Computational Methods for Physical Sciences</i>	Spr. 2018	
	<i>Instructor, Physics 165: Particle Physics</i>	Win. 2018	
	<i>Instructor, Physics 231: Methods in Theoretical Physics</i>	Fall 2017	
	<i>Instructor, Physics 177: Computational Methods for Physical Sciences</i>	Spr. 2017	
	<i>Instructor, Physics 208: General Relativity</i>	Win. 2017	
	<i>Instructor, Physics 231: Methods in Theoretical Physics</i>	Fall 2016	
	Cornell University, Ithaca, NY		
	<i>Teaching Assistant, Physics 3318: Analytical Mechanics</i>	Spr. 2013	
	<i>Teaching Assistant, Physics 3327: Advanced Electricity & Magnetism</i>	Fall 2012	
	<i>Course Grader, Physics 7651: Quantum Field Theory I</i>	Fall 2011	
	UC Berkeley, Berkeley, CA		
	<i>Course Grader, Physics 137A: Quantum Mechanics</i>	Sum. 2006	
	Stanford University, Stanford, CA		
	<i>Teaching Assistant, Physics 121: Electrodynamics II</i>	Spr. 2006	
	<i>Course Grader, Physics 161: Cosmology</i>	Spr. 2006	
	<i>Course Assistant, The Elementary Particles and their Fundamental Interactions</i>	Sum. 2004	
	RECENT PRESS	<i>"Fourteen UC Riverside professors receive NSF CAREER Awards ,"</i> Holly Ober, <i>Inside UCR</i>	Aug 2021

<p>“<i>Welcome Back</i> ,” Imran Ghori, <i>UCR Magazine</i></p>	Sum 2021
<p>“<i>Billionaires in the great beyond</i> ,” <i>UCR News</i></p>	July 2021
<p>“<i>A new dimension in the quest for dark matter</i> ,” Iqbal Pittalwala, <i>UCR News</i></p>	June 2021
<p>“<i>Hackathons catch on for creativity, education, and networking</i> ,” Toni Feder <i>Physics Today</i> 74, 5, 23 (2021)</p>	May 2021
<p>“<i>Veteran and CC transfer student heads to UCLA</i> ,” Iqbal Pittalwala, <i>UCR News</i></p>	May 2021
<p>“<i>UCR accepted into Inclusion, Diversity and Equity Alliance</i>,” Davina Garcia, <i>The Highlander</i></p>	Nov 2020
<p>“<i>Physics and Astronomy joins elite group promoting equity, diversity, and inclusion</i> ,” Iqbal Pittalwala, <i>UCR News</i></p>	Oct. 2020
<p>“<i>Teaching: Assessment in a Continuing Pandemic</i>,” Beckie Supiano, <i>The Chronicle of Higher Education</i></p>	Aug 2020
<p>“<i>Four professors honored with Senate Faculty Awards</i> ,” Imran Ghori, <i>Inside UCR</i></p>	June 2020
<p>“<i>What Goes On in a Proton? Quark Math Still Conflicts With Experiments.</i> ,” Charlie Wood, <i>Quanta Magazine</i></p>	May 2020
<p>“<i>Physics undergraduate student headed to CERN</i>,” Iqbal Pittalwala, <i>UCR News</i></p>	Dec. 2018
<p>“<i>Get to know 10 early-career theorists</i>,” Emily Ayshford, <i>Symmetry</i></p>	Jul. 2018
<p>“<i>Particles crossing to our world could open portal to dark-matter realm</i>,” Daniel Cossins, <i>New Scientist</i></p>	Nov. 2018
<p>“<i>Telling the Truth</i>,” <i>UCR Magazine</i>,</p>	Nov. 2018
<p>“<i>Office Hours: This dark matter expert keeps his office vibe lighthearted</i>,” Omar Shamout, <i>UCR Magazine</i></p>	Nov. 2018
<p>“<i>Dark Matter Eludes Particle Physicists</i>,” <i>NPR Science Friday</i></p>	Jun. 2018
<p>“<i>What’s the Universe Made of?</i>,” <i>Nova Wonders</i> Season 45 Episode 106</p>	May 2018
<p>“<i>Nova Wonders Asks ‘What’s the Universe Made Of’ Tonight</i>,” Sarah Lewin, <i>Space.com</i> & Facebook Live interview</p>	May 2018
<p>“<i>Nova Wonders Episode to Feature UCR Expert on Dark Matter</i>,” Iqbal Pittalwala, <i>UCR Today</i></p>	Apr. 2018
<p>“<i>Physicists Win Two Awards at Science Hack Day</i>,” Iqbal Pittalwala, <i>UCR Today</i></p>	Oct. 2017
<p>“<i>UCR physicists win ‘Best in Show’ and ‘Most Whimsical’ at Science Hack Day</i>,” Cydney Contreras, <i>The Highlander</i></p>	Oct. 2017
<p>“<i>Generation: First</i>,” <i>UCR Magazine</i> (Vol 13, No. 1)</p>	Win. 2018
<p>“<i>Protophobic Fifth-Force Interpretation of the Observed Anomaly in ^8Be</i>,” Altmetric attention score: 977 <i>Top 5% of all research outputs, #5 output from Phys. Rev. Lett., 99th percentile for outputs of the same age and source.</i></p>	Aug. 2016

	<p><i>“Nuclear Puzzle May Be Clue to Fifth Force,”</i> Sean Nelson, <i>UCR Today</i></p>	Aug. 2016
	<p><i>“Meet Philip “Flip” Tañedo,”</i> Pinoy Scientists</p>	June 2016
	<p><i>“One Higgs is the loneliest number,”</i> Katie Elyce Jones, <i>Symmetry Magazine</i></p>	July 2015
	<p><i>“Hard times for theorists in a post-Higgs world,”</i> Andrew Grant, <i>Science News</i></p>	June 2013
REFEREEING	<p>Referee record is available at https://publons.com/author/637273/philip-tanedo.</p> <p>Referee: <i>Physics Review D</i> (APS) 2014 – 2021 Referee: <i>European Physical Journal C</i> (Springer) 2014, 2017 – 2018 Referee: <i>Physics of the Dark Universe</i> (Elsevier) 2013, 2015 Referee: <i>Annals of Physics</i> (Elsevier) 2013 Referee: <i>Europhysics Letters</i> (EPS) 2012</p>	
SERVICE	<p>Panelist: DOE FY22 HEP Intensity Frontier University Comparative Review 2021 – 2021 Reviewer: DOE FY22 HEP Intensity Frontier University Comparative Review 2021 – 2021 Application Reviewer: UC President’s Postdoctoral Fellowship Program 2018 – 2021 Physics Reader: Paul & Daisy Soros Fellowships for New Americans 2018 – 2020 Organizing Committee: AIP Communicating Science Workshop 2018 – 2019</p>	
UNIVERSITY SERVICE	<p>Committee: UCEAP 3-year Summer Physics Program Review (UC Systemwide) 2019 – 2020 Speaker: UCR Science to Policy Certificate Program 2018 <i>Led discussion and workshop on social media as an academic.</i></p> <p>Mentor: UCR Graduate Student Mentoring Program 2017 – 2018 <i>Organized by UCR Graduate Division; mentees listed below.</i></p> <p>Discussion leader: UCR GradEdge/JumpStart summer journal club 2017 <i>Led a journal club to prepare incoming under-represented minority grad students.</i></p> <p>Media contact: UCR Experts on Demand 2016</p>	
DEPARTMENT COMMITTEES	<p>Faculty Editor: Advancing Faculty Diversity Search 2019 – 2020 <i>Stepped down due to COVID-19 family care commitments</i></p> <p>Chair: Website & Display 2017 – Outreach 2017 – 2018 Graduate Diversity 2017 – Co-Chair: Summer Academy for HS teachers 2016 – 2018 Early Universe Hiring Committee 2016 – 2017 Chair: Open House Committee 2016 – UCR–CC Bridge 2016 – 2017 Ernest Ma Retirement Symposium 2016 – 2017 Undergraduate Advising 2016 – 2018 <i>Included advising 9 undergraduate physics majors.</i></p>	
DEPARTMENT SERVICE	<p>Organizer: APS IDEA: UCR Team Lead 2016 – <i>American Physical Society network of teams to improve institutional equity.</i></p> <p>Co-Founder, Advisor: Physics Organization for Women and the Underrepresented 2018 – <i>Inclusive women-in-physics group to support under-represented students.</i></p> <p>Social Media: Particle Theory Twitter (@UCR_HEP_Theory) 2017 –</p>	

	Organizer: UCR Physics Hack Day <i>Weekend student hackathon for digital science projects.</i>	2016 – 2017
MENTORING	Cientifico Latino Mentoring Program: George Iskander	2019 – 2020
	APS National Mentoring Community Mentor: Sergio Garcia	2018 – 2019
	UCR Graduate Student Mentoring Program <i>Pak Kau Lim, Yawei Qin, Joshua Raimist, Lexi Costantino, Nicholas Goman, Yunxiao Li</i>	2017 – 2018
	Paul & Daisy Soros Fellowship for New Americans: Laura Cheng	2017 – 2018
OUTREACH	Organizer: Physical & Natural Science Book Club (Cellar Door Bookstore) <i>Monthly discussion of popular science books with members of the community</i>	2016 –
	Featured Scientist: STEM Trading Cards, Science Delivered	2020 – 2021
	Science Pen-Pal: Letters to a Pre-Scientist program	2019 – 2020
	Organizer: UCR Summer Physics Teacher Academy, Women In Physics Book Club	2019 – 2020
	Adoptee: ΣΠΣ Adopt-A-Physicist program	2018 – 2019
	Discussion leader: UC President’s Fellowship Spring Retreat; career navigation	2017
	Science Ambassador: Science Hack Day San Francisco <i>One of six invited scientists sponsored by Gordon & Betty Moore Foundation</i>	2015
	Blogger, organizer, editor: ParticleBites, a research digest <i>Leads team of students who write about physics for the public.</i>	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	
PUBLIC TALKS & PANELS	#PhysicsMeetup: <i>Little Particles in a Big Universe,</i> (video)	
	ICTP Physics Without Frontiers: Philippines	Jul. 2021
	Panel: “ <i>Physics Education,</i> ” UCR Summer Physics Teacher Academy	Jun. 2021
	“ <i>Non-Traditional Assessment & Inclusivity in Physics,</i> ” UCR Summer Physics Teacher Academy	Jun. 2021
	“ <i>The Secret Syllabus: Unwritten Rules for a Physics Major,</i> ” Invited talk, Physics 39 (1st year physics majors), UCR	Nov. 2020
	“ <i>Radio Physics,</i> ” Invited interviewee, KDNK Community Radio, Aspen, CO	Jun. 2019
	Panel organizer: “ <i>The Only Woman in the Room</i> book club discussion” UCR Summer Physics Teacher Academy	June. 2019
	“ <i>Finding Your Voice: Storytelling Lessons for Scientists</i> ” 2019 AAAS Meeting, invited panel from Science Friday; Washington DC	Feb. 2019
	“ <i>Attending to Diversity In the Physics Classroom</i> ” UCR Summer Physics Teacher Academy Conference	Feb. 2019
	“ <i>How to Fail as a Physics Major,</i> ” Invited talk, Physics 39 (1st year physics majors), UCR	Nov. 2019
	Invited talk, Physics 39 (1st year physics majors), UCR	Nov. 2018
	“ <i>Impostor Syndrome and Failure in College</i> ” UCR Society of Physics Students	Oct. 2018
	“ <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> Invited talk, Physics 39 (1st year physics majors), UCR Middle School Symposium talk, Riverside STEM Academy High School Symposium talk, Riverside STEM Academy	Nov. 2020 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
	<i>“Balancing writing your dissertation and finding a postdoc position”</i> Panelist, UCI Graduate Division & ADVANCE Program	Nov. 2014
	<i>“Here be dragons: [fairy] tales from beyond the Standard Model”</i> Cornell Society of Physics Students	Apr. 2013
	<i>“The Physics of Angels & Demons”</i> Cornell Institute for Physics Teachers	Jul. 2009
	<i>“Applying for Graduate Fellowships Information Session”</i> Panelist, Cornell Physics Department	Oct. 2008
	<i>“Quantum penguins hint at the nature of matter and antimatter”</i> Marshall Aid Commemoration Commission Colloquium, London, UK	May 2008
PHD STUDENTS	Yash Aggarwal , Ph.D student, UC Riverside (co-advisor: Anson D’Aloisio) Alexandria Costantino , Ph.D student, UC Riverside Adam Green , Ph.D student, UC Riverside Kuntal Pal , Ph.D student, UC Riverside (co-advisor: Jose Wudka) Ian Chaffey , Ph.D student, UC Riverside	2019 – 2018 – 2018 – 2018 – 2017 –
POSTDOCTORAL SCHOLARS	Aniket Joglekar , Postdoctoral Scholar, UC Riverside (primary mentor: Yanou Cui) Ran Huo , Postdoctoral Scholar, UC Riverside	2017 – 2020 2016 – 2018
UNDERGRADUATE STUDENTS	Cecelia Ngo , undergraduate researcher, UC Riverside Sagada Penano (Stanford University), Summer Research Student Sergio Garcia , APS National Mentoring Community, UC Riverside Syris Norelli , undergraduate researcher, UC Riverside Adam Green , undergraduate researcher/honors advisee, UC Riverside	2021 – 2022 2020 – 2021 2018 – 2019 2017 – 2018 2016 – 2017
HS STUDENTS	Anagha Satish (Redlands High School), Summer Research Student	2020 – 2021
QUALIFYING EXAM	Non-Chair member of the UCR qualifying exam committee for the following students Erik Lloyd Gerardo Alvarez Andrew Birkey (Earth Sciences) Michael Shamma Amartya Mitra Lydia Elias Tao Ren	Oct. 2021 Nov. 2019 Oct. 2019 Nov. 2019 Sep. 2017 Sep. 2017 Sep. 2016
PHD DEFENSE	Non-Chair member of the UCR dissertation committee for the following students Gerardo Alvarez	Sep. 2021

Michael Shamma
Tao Ren
Mohammareza Zakeri

Oct. 2019
Sep. 2019
Jun. 2017