

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 contributed to 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

- “*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*”
Invited Colloquium, Cornell Physics Department, Ithaca, NY 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
- “*Light mediators and terrestrial dark matter capture*”
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</i> ” / “ <i>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
“ <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	Oct. 2012
Harvard Particle Theory Seminar	Feb. 2012
UC Irvine Joint Particle Seminar	Jan. 2012
Cornell Theory Group Seminar	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	TRISEP Lectures on BSM Physics, TRIUMF, Vancouver	Jul. 2019
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
	Dark Matter from the Laboratory to the Cosmos, Aspen Center for Physics, Aspen, CO	Aug. 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, SLAC, Menlo Park, CA	Oct. 2021
	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	Sep. 2019
	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

TEACHING

UC Riverside, Riverside, CA

<i>Instructor</i> , Physics 165: Particle Physics	Apr. 2021
<i>Instructor</i> , Physics 017: Linear Algebra for Physics	Apr. 2021
<i>Instructor</i> , Physics 231: Methods in Theoretical Physics	Fall 2021
<i>Instructor</i> , Honors 018: Poetry for Physicists (Ignition Seminar)	Fall 2021
<i>Instructor</i> , Physics 40B: General Physics	Win. 2021
<i>Instructor</i> , Physics 231: Methods in Theoretical Physics	Fall 2020
<i>Instructor</i> , Physics 40B: General Physics	Apr. 2020
<i>Instructor</i> , Physics 165: Particle Physics	Win. 2020
<i>Instructor</i> , Honors 018: Poetry for Physicists (Ignition Seminar)	Fall 2019
<i>Instructor</i> , Physics 231: Methods in Theoretical Physics	Fall 2019
<i>Instructor</i> , Physics 262: Special Topics: Group Theory	Win. 2019
<i>Instructor</i> , Physics 231: Methods in Theoretical Physics	Fall 2018
<i>Instructor</i> , Physics 177: Computational Methods for Physical Sciences	Apr. 2018
<i>Instructor</i> , Physics 165: Particle Physics	Win. 2018
<i>Instructor</i> , Physics 231: Methods in Theoretical Physics	Fall 2017
<i>Instructor</i> , Physics 177: Computational Methods for Physical Sciences	Apr. 2017
<i>Instructor</i> , Physics 208: General Relativity	Win. 2017
<i>Instructor</i> , Physics 231: Methods in Theoretical Physics	Fall 2016

Cornell University, Ithaca, NY

<i>Teaching Assistant</i> , Physics 3318: Analytical Mechanics	Apr. 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

<i>Course Grader</i> , Physics 137A: Quantum Mechanics	Sum. 2006
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Stanford University, Stanford, CA

<i>Teaching Assistant</i> , Physics 121: Electrodynamics II	Apr. 2006
<i>Course Grader</i> , Physics 161: Cosmology	Apr. 2006
<i>Course Assistant</i> , The Elementary Particles and their Fundamental Interactions	Sum. 2004

RECENT PRESS

<i>“Fourteen UC Riverside professors receive NSF CAREER Awards ,”</i> Holly Ober, <i>Inside UCR</i>	Aug 2021
<i>“Welcome Back ,”</i> Imran Ghori, <i>UCR Magazine</i>	Sum 2021
<i>“Billionaires in the great beyond ,”</i> <i>UCR News</i>	July 2021
<i>“A new dimension in the quest for dark matter ,”</i> Iqbal Pittalwala, <i>UCR News</i>	June 2021
<i>“Hackathons catch on for creativity, education, and networking ,”</i> Toni Feder <i>Physics Today</i> 74, 5, 23 (2021)	May 2021
<i>“Veteran and CC transfer student heads to UCLA ,”</i> Iqbal Pittalwala, <i>UCR News</i>	May 2021
<i>“UCR accepted into Inclusion, Diversity and Equity Alliance,”</i> Davina Garcia, <i>The Highlander</i>	Nov 2020
<i>“Physics and Astronomy joins elite group promoting equity, diversity, and inclusion ,”</i> Iqbal Pittalwala, <i>UCR News</i>	Oct. 2020
<i>“Teaching: Assessment in a Continuing Pandemic,”</i> Beckie Supiano, <i>The Chronicle of Higher Education</i>	Aug 2020
<i>“Four professors honored with Senate Faculty Awards ,”</i> Imran Ghori, <i>Inside UCR</i>	June 2020

“ <i>What Goes On in a Proton? Quark Math Still Conflicts With Experiments.</i> ,” Charlie Wood, <i>Quanta Magazine</i>	May 2020
“ <i>Physics undergraduate student headed to CERN,</i> ” Iqbal Pittalwala, <i>UCR News</i>	Dec. 2018
“ <i>Get to know 10 early-career theorists,</i> ” Emily Ayshford, <i>Symmetry</i>	Jul. 2018
“ <i>Particles crossing to our world could open portal to dark-matter realm,</i> ” Daniel Cossins, <i>New Scientist</i>	Nov. 2018
“ <i>Telling the Truth,</i> ” <i>UCR Magazine,</i>	Nov. 2018
“ <i>Office Hours: This dark matter expert keeps his office vibe lighthearted,</i> ” Omar Shamout, <i>UCR Magazine</i>	Nov. 2018
“ <i>Dark Matter Eludes Particle Physicists,</i> ” NPR <i>Science Friday</i>	Jun. 2018
“ <i>What’s the Universe Made of?,</i> ” <i>Nova Wonders</i> Season 45 Episode 106	May 2018
“ <i>Nova Wonders Asks ‘What’s the Universe Made Of’ Tonight,</i> ” Sarah Lewin, <i>Space.com</i> & Facebook Live interview	May 2018
“ <i>Nova Wonders Episode to Feature UCR Expert on Dark Matter,</i> ” Iqbal Pittalwala, <i>UCR Today</i>	Apr. 2018
“ <i>Physicists Win Two Awards at Science Hack Day,</i> ” Iqbal Pittalwala, <i>UCR Today</i>	Oct. 2017
“ <i>UCR physicists win ‘Best in Show’ and ‘Most Whimsical’ at Science Hack Day,</i> ” Cydney Contreras, <i>The Highlander</i>	Oct. 2017
“ <i>Generation: First,</i> ” <i>UCR Magazine</i> (Vol 13, No. 1)	Win. 2018
“ <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>	Aug. 2016
“ <i>Nuclear Puzzle May Be Clue to Fifth Force,</i> ” Sean Nelson, <i>UCR Today</i>	Aug. 2016
“ <i>Meet Philip “Flip” Tañedo,</i> ” Pinoy Scientists	June 2016
“ <i>One Higgs is the loneliest number,</i> ” Katie Elyce Jones, <i>Symmetry Magazine</i>	July 2015
“ <i>Hard times for theorists in a post-Higgs world,</i> ” Andrew Grant, <i>Science News</i>	June 2013

REFEREEING

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

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

SERVICE

Application Reviewer: UC President’s Postdoctoral Fellowship Program	2018 – 2020
Physics Reader: Paul & Daisy Soros Fellowships for New Americans	2018 – 2020
Organizing Committee: AIP Communicating Science Workshop	2018 – 2019

UNIVERSITY SERVICE	Committee: UCEAP 3-year Summer Physics Program Review (UC Systemwide)	2019 – 2020
	Speaker: UCR Science to Policy Certificate Program <i>Led discussion and workshop on social media as an academic.</i>	2018
	Mentor: UCR Graduate Student Mentoring Program <i>Organized by UCR Graduate Division; mentees listed below.</i>	2017 – 2018
	Discussion leader: UCR GradEdge/JumpStart summer journal club <i>Led a journal club to prepare incoming under-represented minority grad students.</i>	2017
	Media contact: UCR Experts on Demand	2016
DEPARTMENT COMMITTEES	Faculty Editor: Advancing Faculty Diversity Search <i>Stepped down due to COVID-19</i>	2019 – 2020
	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 <i>Included advising 9 undergraduate physics majors.</i>	2016 – 2018
		Organizer: UCR Physics Hack Day
DEPARTMENT SERVICE	Advisor: Physics Organization for Women and the Underrepresented	2018 –
	Social Media: Particle Theory Twitter (@UCR_HEP_Theory)	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 Panel organizer: “ <i>The Only Woman in the Room</i> book club discussion” UCR Summer Physics Teacher Academy	Jun. 2019 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

	Alexandria Costantino , Ph.D student, UC Riverside	2018 –
	Adam Green , Ph.D student, UC Riverside	2018 –
	Kuntal Pal , Ph.D student, UC Riverside (co-advisor: Jose Wudka)	2018 –
	Ian Chaffey , Ph.D student, UC Riverside	2017 –
POSTDOCTORAL SCHOLARS	Aniket Joglekar , Postdoctoral Scholar, UC Riverside (primary mentor: Yanou Cui)	2017 – 2020
	Ran Huo , Postdoctoral Scholar, UC Riverside	2016 – 2018
UNDERGRADUATE STUDENTS	Sagada Penano (Stanford University), Summer Research Student	2020 – 2021
	Sergio Garcia , APS National Mentoring Community, UC Riverside	2018 – 2019
	Syris Norelli , undergraduate researcher, UC Riverside	2017 – 2018
	Adam Green , undergraduate researcher, UC Riverside	2016 – 2017
HS STUDENTS	Anagha Satish (Redlands High School), Summer Research Student	2020 – 2021