Philip (Flip) Tanedo

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CONTACT INFORMATION	3054 Physics Building University of California Riverside, CA 92521, USA	951 827 6168 x26168 flip.tanedo@ucr.edu physics.ucr.edu/flip/		
RESEARCH INTERESTS	My research focuses on models of dark matter and electroweak symmetry nomenology at high-energy colliders and astro-particle experiments.	v v c		
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 Doctor of Philosophy (2013), Master of Science (2010) Advisor: Csaba Csáki	2008 - 2013		
	Durham University (Josephine Butler College), Durham, UK Master of Science by Research	2007 - 2008		
	Cambridge University (Trinity College), Cambridge, UK Master of Advanced Study in Mathematics with Merit	2006 - 2007		
	Stanford University, Stanford, California Bachelor of Science in Physics and Mathematics with Honors and Distinction	on 2002 – 2006		
FELLOWSHIPS &	UCI Chancellor's ADVANCE Postdoctoral Fellowship	2014 - 2015		
HONORS	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	"Neutron stars at the dark matter direct detection frontier," N. Raj, P. Tanedo and H. B. Yu, arXiv:1707.09442 [hep-ph], Submitted to Phys. Rev. Lett.			
	"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 [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, Phys. Rev. D 95 , no. 10, 103005 (2017) arXiv:1612.05687 [hep-ph].			
	"Lepton-Flavor Violating Mediators," I. Galon, A. Kwa and P. Tanedo, JHEP 1703 , 064 (2017) arXiv:1610.08060 [hep-ph].			
	"Dark Sectors 2016:Community Report," J. Alexander et al., 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, Phys. Rev. D 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, Phys. 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, Parádfürdő, 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 $b \to s\gamma$ 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 $B_s \to \ell^+ \ell'^-$ in the MSSM", A. Dedes, J. Rosiek and P. Tanedo, Phys. Rev. D **79**, 055006 (2009) arXiv:0812.4320 [hep-ph]

CONFERENCE TALKS & INVITED **SEMINARS**

"Light mediators and terrestrial dark matter capture" New Directions in Dark Matter and Neutrino Physics, Invited Talk, Perimeter Institute, Waterloo, CA

Jul. 2017

"Models, Exotic Signatures and Proposed Searches"

XI International Conference on the Interconnection between Particle Physics and Cosmology, Invited Plenary Talk, Corpus Christi, TX May 2017

"Composite Higgs, Composite Mediators" DM at LHC, UC Irvine, CA

Apr. 2017

"New Physics in Nuclear Transitions? The 17 MeV Anomaly in ⁸Be"

Focus Workshop on Particle Physics and Cosmology, CTPU-IBS, Daejon 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) 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	Sep. 2016 July. 2016 May. 2016 May. 2016 May. 2016 April. 2016
"Dark Sunshine" Cal State Fullerton Physics Colloquium, Fullerton, CA CSU Long Beach, Physics Colloquium, Long Beach, CA	Mar. 2016 Mar. 2016
"Dark Photons from the Center of the Earth" 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	May. 2016 Feb. 2016 Feb. 2016 Dec. 2015 Dec. 2015 Sep. 2015 Sep. 2015 Aug. 2015 Jul. 2015
"On-Shell Mediators" / "Heavy, Hidden Hooperon" 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
"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 Harvard Particle Theory Seminar UC Irvine Joint Particle Seminar Cornell Theory Group Seminar	Oct. 2012 Feb. 2012 Jan. 2012 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 Cornell Particle Theory Lunch Seminar Maryland Theory Seminar DAMTP-Cavendish Phenomenology Seminar, Cambridge, UK	May 2011 Feb. 2011 Mar. 2011 Feb. 2011
"The Birds and the B_s : $B_s \to \mu\mu$ in the MSSM" Theoretical Advanced Study Institute, Boulder, CO Cornell Particle Theory Lunch Seminar IOP HEPP: Beauty Physics in the UK, Lancaster, UK	Jun. 2009 Feb. 2009 Nov. 2008

U. Ioannina Div. Theoretical Physics Journal Club, Greece LHCb UK Meeting, Durham, UK

ORGANIZED ACTIVITIES

Southern California Beyond the Standard Model, UCR, Riverisde, CA

Main workshop organizer, the first in a series of workshops to better connect the Southern California particle physics community. The workshop was well received and we are currently planning the next workshop at ucla with the intent of making this an annual tradition.

Apr. 2017

Oct. 2008

Dec. 2007

WORKSHOPS & CONFERENCES

New Directions in Dark Matter and Neutrino Physics, Perimeter Institute, Waterloo, CA	Jul. 2017
XI International Conference on Particle Physics and Cosmology, Corpus Christi, TX	May 2017
Dark Matter at LHC, UCI, Irvine, CA	Apr. 2017
Dark Matter at LHC, UCI, Irvine, CA	Apr. 2017
Southern California Beyond the Standard Model (organizer), UCR, Riverside, CA	Apr. 2017
Focus Workshop on Particle Physics and Cosmology, MCTP, Ann Arbor, CTPU-IBS, Korea	
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 PPFP 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 PPFP Academic Retreat, Lake Arrowhead, CA	Apr. 2015
UCI Data Science Initiative: Software Carpentry	Feb. 2015
UC PPFP 30th Anniversary Meeting, Berkeley, CA	Oct. 2014
Model Building in the LHC Era, Aspen Center for Physics	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	
TEACHING	Lecturer, Physics 231: Methods in Theoretical Physics	Fall 2016
	Lecturer, Physics 208: General Relativity	Winter 2017
	Lecturer, Physics 177: Computational Methods for Physical Sciences	Spring 2017
	Cornell University, Ithaca, NY	
	Teaching Assistant, Physics 3318: Analytical Mechanics	Spring 2013
	Teaching Assistant, Physics 3327: Advanced Electricity & Magnetism	Fall 2012
	Course Grader, Physics 7651: Quantum Field Theory I	Fall 2011
	LIC Doubelos, Poulelos, G.	
	UC Berkeley, Berkeley, CA Course Grader, Physics 137A: Quantum Mechanics	Summer 2006
	Course Grader, 1 hysics 1971. Quantum Mechanics	Summer 2000
	Stanford University, Stanford, CA	G : 200 <i>a</i>
	Teaching Assistant, Physics 121: Electrodynamics II	Spring 2006
	Course Grader, Physics 161: Cosmology	Spring 2006 Summer 2004
	Course Assistant, The Elementary Particles and their Fundamental Interactions	Summer 2004
RECENT PRESS	"Protophobic Fifth-Force Interpretation of the Observed Anomaly in ⁸ Be,"	
	Physical Review Letters; Altmetric attention score ¹ : 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
SERVICE	Referee: Physics Review D (APS)	2014, 2015
OLITIOL	Referee: European Physical Journal C (Springer)	2014, 2019
	Referee: Physics of the Dark Universe (Elsevier)	2013, 2015
	Referee: Annals of Physics (Elsevier)	2013
	Referee: Europhysics Letters (EPS)	2012
OLITREACH	Monton, HGD CradEdgo/JumpStant program for incoming and looks at 1	2017
OUTREACH	Mentor: UCR GradEdge/JumpStart program for incoming graduate students Mentor: Paul & Daisy Soros Fellowship for New Americans	2017 -
	Organizer: UCR Physics Hack Day	2017 - 2016 -
	Organizer: UCR Physics & Astronomy Open House	2016 -
	Organizer: Physical & Natural Science Book Club (Cellar Door Bookstore)	2016 -
	Organizer: UCR Physics & Astronomy Open House	2016 -
	Science Ambassador: Science Hack Day San Francisco One of six invited scientists sponsored by Gordon & Betty Moore Foundation	2015
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Top 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

	Blogger, organizer: ParticleBites, a research digest Blogger: US/LHC Blogs (Quantum Diaries), public outreach blog Lecturer: Particle Physics for Undergrads (Cornell undergraduate research program) Lecturer: Stanford ESP SPLASH! and SHEP high school courses on particle physics	$2013 - 2009 - 2012 \\ 2012 \\ 2005$
OUTREACH TALKS & PANELS	"Quantum Electrodynamics with Feynman Diagrams" UCR Summer Physics Teacher Academy	June 2017
	"Applying to Graduate School" UCR Society of Physics Students	May 2017
	"Data vs. Dark Matter: Opportunities for Open Science in Particle Physics" 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