

Philip (Flip) Tanedo [he/him]

CONTACT INFORMATION


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RESEARCH


I am a theoretical physicist seeking to understand what dark matter is, how it got here, why it is still here, and what we have to do to confirm its identity as an elementary particle. I use quantum field theory to address open questions in fundamental science.


EMPLOYMENT


 **University of California, Riverside**
Associate Professor, Department of Physics & Astronomy 2022
Assistant Professor, Department of Physics & Astronomy 2016 – 2022


 **University of California, Irvine**
Postdoctoral Scholar, Chancellor's ADVANCE Postdoctoral Fellow 2013 – 2016

EDUCATION

 **Cornell University**, Ithaca, New York
Advisor: Csaba Csáki; *Doctor of Philosophy (2013), Master of Science (2010)* 2008 – 2013

 **Durham University** (Josephine Butler College), Durham, UK
Advisor: Athanasios Dedes; *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 2002 – 2006

FELLOWSHIPS & HONORS

UCR Office of Student Life: Adviser of the Year 2023
Awarded to a UCR faculty member for outstanding mentorship of a student group. Nominated by the Physics Organization for Women & the Under-Represented.

National Science Foundation CAREER Award 2021–2026
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.

UCR Junior Faculty Excellence in Teaching Award 2021
Awarded by the UCR Academy of Distinguished Teaching to junior faculty. 3 awards per year.

Hellman Fellowship 2020 – 2021
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.

UCR Graduate Division: Commitment to Graduate Diversity Award 2020
For faculty who champion efforts to promote a diverse and inclusive graduate student and campus climate. Up to 2 awards per year.

UCI Chancellor's ADVANCE Postdoctoral Fellowship 2014 – 2015
For strong promise for faculty appointment and a commitment to equal opportunity. Drawn from finalists of the UC President's Postdoctoral Fellowship Program.

Ford Foundation Dissertation Fellowship, Honorable Mention 2012
Individuals with evidence of superior academic achievement and committed to a career in teaching and research at the college or university level in the U.S.

Paul & Daisy Soros Fellowship for New Americans 2010 – 2012
For first- and second-generation immigrants poised to make significant contributions to society, culture or their academic field. 30 fellows per year.

Ford Foundation Predoctoral Fellowship, Honorable Mention 2010

Individuals with evidence of superior academic achievement and committed to a career in teaching and research at the college or university level in the U.S.

National Science Foundation Graduate Research Fellowship

2006 – 2011

Outstanding graduate students who have demonstrated the potential to be high achieving scientists and engineers, early in their careers. Approximately 2000 awards out of 12,000 applicants.

Marshall Scholarship

2006 – 2008

For Americans of high ability to pursue graduate study in the UK. 50 scholars per year out of a pool of 1000 university endorsed applicants.

Barry M. Goldwater Scholarship

2005 – 2006

The most prestigious undergraduate scholarship in the natural sciences, mathematics, and engineering in America. Approximately 400 awards out of 5000 2nd and 3rd year undergraduates; two nominees per institution.

PUBLICATIONS

The standard practice in particle physics is to list authors in alphabetical order.

“*Holography of Broken $U(1)$ Symmetry*,” I. Chaffey, S. Fichet and P. Tanedo, [arXiv:2309.00040](#)

“*Snowmass Cosmic Frontier Report*,” A. S. Chou + 31 authors. [arXiv:2211.09978](#)

“*Snowmass 2021 Dark Matter Complementarity Report*,” A. Boveia + 26 authors. [arXiv:2211.07027](#)

“*Snowmass Theory Frontier Report*,” N. Craig + 40 authors. [arXiv:2211.05772](#)

“*Snowmass 2021 Cross Frontier Report: Dark Matter Complementarity (Extended Version)*,” A. Boveia + 26 authors. [arXiv:2210.01770](#)

“*Snowmass Theory Frontier: Astrophysics and Cosmology*,” D. Green + many authors. [arXiv:2209.06854](#)

“*Dark Z at the International Linear Collider*,”

Y. C. San, M. Perelstein and P. Tanedo,

Phys. Rev. D **106** (2022) no.1, 015027 [arXiv:2205.10304](#)

“*Efficient sampling of constrained high-dimensional theoretical spaces with machine learning*,”

J. Hollingsworth, M. Ratz, P. Tanedo and D. Whiteson,

Eur. Phys. J. C **81** (2021) no.12, 1138 [arXiv:2103.06957](#)

“*Continuum-Mediated Self-Interacting Dark Matter*,”

I. Chaffey, S. Fichet and P. Tanedo,

JHEP **06** (2021), 008 [arXiv:2102.05674](#)

“*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](#)

“*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](#)

“*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](#)

“*Exotic Lepton-Flavor Violating Higgs Decays*,”

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

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

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

A. Costantino, S. Fichet and P. Tanedo

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

“*Vector Self-Interacting Dark Matter*,”

I. Chaffey and P. Tanedo,

Phys. Rev. D **101** (2020) no.7 075005 [arXiv:1907.10217](#)

“*The Warped Dark Sector*,”

- P. Brax, S. Fichet and P. Tanedo,
Phys. Lett. B **798**, 135012 (2019) [arXiv:1906.02199](#)
- “DarkCapPy: Dark Matter Capture and Annihilation,”*
A. Green and P. Tanedo,
Comput. Phys. Commun. **242**, 120-131 (2019) [arXiv:1808.03700](#)
- “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](#)
- “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](#)
- “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](#)
- “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](#)
- “Lepton-Flavor Violating Mediators,”*
I. Galon, A. Kwa and P. Tanedo,
JHEP **1703**, 064 (2017) [arXiv:1610.08060](#)
- “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](#)

PUBLICATIONS
BEFORE UCR

The standard practice in particle physics is to list authors in alphabetical order.

- “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

- “*Neutron Star Heating from Dark Matter: The Relativistic Frontier*”
Invited talk, Center for Theoretical Undergound Physics and Related Areas, SD Jul. 2023
- “*Why haven't we discovered dark matter yet?*”
Invited Hybrid Seminar, UW Bothell Physics Seminar, Bothell, WA Nov. 2022
Invited Seminar, Loyola University, Chicago, IL Sep. 2022
Invited Colloquium, California State University, Long Beach External, CA Sep. 2023
- “*Adventures in a Warped Dark Sector*”
Invited Physics Seminar, University of Melbourne (Hybrid), Australia Oct. 2022
- “*Dark Matter in Compact Objects*”
Invited Plenary, SAIFR/Princípia Workshop on the Nature of Dark Matter, São Paulo Nov. 2022
- “*Theory & the Cosmic Frontier*”
Invited Talk, KITP Conference: Snowmass Theory Frontier, Santa Barbara, CA Feb. 2021
- “*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

<i>“Warped Dark Sectors”</i>	
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
<i>“e^+e^- Production of Dark Sector Particles”</i>	
Americas Workshop on Linear Colliders 2020, SLAC, Menlo Park, CA	Oct. 2020
<i>“Dark Matter Heating Neutron Stars: the Electronic Frontier”</i>	
Invited talk, Particle Seminar, Brookhaven National Lab, NY	Feb. 2020
<i>“How Not to Discover the WIMP” / “Whatever Happened to the WIMP of Tomorrow?”</i>	
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
<i>“Vector Self-Interacting Dark Matter”</i>	
Invited talk, 2019 Mitchell Conference, College Station, TX	May. 2019
Texas A&M Mitchell Institute HEP Seminar, College Station, TX	Apr. 2019
<i>“Dark Matter Complementarity / Is the WIMP Dead?”</i>	
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
<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 Bs: $B_s \rightarrow \mu\mu$ 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

and 8th International Symposium on Mathematics and Physics,
University of Santo Tomas, Philippines

Nov. 2021

TRISEP Lectures on BSM Physics, TRIUMF, Vancouver

Jul. 2019

WORKSHOPS &
CONFERENCES

[Matter Theory, Simulation, and Analysis in the Era of Large Surveys](#), KITP, Santa Barbara CA
Jun. 2024

[CETUP* 2023: Dark Matter](#), Sanford Underground Research Facility, Lead, SD Jun. 2023

[Theoretical Physics for Machine Learning](#), Aspen Center for Physics, Aspen, CO Feb. 2023

[Workshop on the Nature of Dark Matter](#), Principia Institute, ICTP-SAIFR, São Paulo Nov. 2023

Sustainable HEP 2nd ed. (remote), CERN Sep. 2022

Searching for New Physics, Aspen Center for Physics, Aspen, CO Aug. 2022

IAIFI Summer Workshop, Tufts University, MA Aug. 2022

IAIFI Ph.D Summer School (student), Tufts University, MA Aug. 2022

First Pollica Workshop on Dark Matter (organizer), Pollica, Italy Jun. 2022

American Physical Society April Meeting, New York, NY Apr. 2022

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 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, 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	Jun. 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 Emotion & Society Lab	2022 –
	Collaborator for public book club events. Director: Myisha Cherry.	
	UCR Center for Ideas & Society Academic Book Club	
	UCR program for cross-discipline critical inquiry and discussions.	
	<i>This Is How They Tell Me The World Ends</i> (organizer, 7 members)	Mar. 2022
	<i>White Kids & Klara and the Sun</i> (organizer, 6 members)	Nov. 2021
	<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	Apr.–Jun. 2019
	"What Are the Intrinsic Rewards of Our Work?" seminar.	
	Cross-discipline discussions between 12 invited faculty.	

TEACHING	UC Riverside, Riverside, CA	
	<i>Instructor, Physics 017: Linear Algebra for Physics</i>	Spr. 2024
	<i>Instructor, Physics 165: Particle Physics</i>	Spr. 2024
	<i>Instructor, Physics 231: Methods in Theoretical Physics</i>	Fall 2023
	<i>Instructor, Physics 017: Linear Algebra for Physics</i>	Spr. 2023
	<i>Instructor, Physics 231: Methods in Theoretical Physics</i>	Fall 2022
	<i>Instructor, Physics 231: Methods in Theoretical Physics</i>	Fall 2022
	<i>Instructor, Physics 017: Linear Algebra for Physics</i>	Spr. 2022
	<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

Teaching Assistant, Physics 121: Electrodynamics II

Spr. 2006

Course Grader, Physics 161: Cosmology

Spr. 2006

Course Assistant, The Elementary Particles and their Fundamental Interactions

Sum. 2004

RECENT PRESS

“Ask a Scientist creates connections and understanding ,” Constance Walter, <i>SURF News and Updates</i>	Aug. 2023
“Can a theory ever die? ,” Sarah Charley, <i>Symmetry Magazine</i>	May 2022
“Where do theories come from? ,” Sarah Charley, <i>Symmetry Magazine</i>	Apr. 2022
“Beyond the Standard Model ,” Katrina Miller, <i>Symmetry Magazine</i>	Feb. 2022
“What is annihilation? ,” Graycen Wheeler, <i>Symmetry Magazine</i>	Feb. 2022
“Fourteen UC Riverside professors receive NSF CAREER Awards ,” Holly Ober, <i>Inside UCR</i>	Aug 2021
“Welcome Back ,” Imran Ghori, <i>UCR Magazine</i>	Sum 2021
“Billionaires in the great beyond ,” <i>UCR News</i>	July 2021
“A new dimension in the quest for dark matter ,” Iqbal Pittalwala, <i>UCR News</i>	June 2021
“Hackathons catch on for creativity, education, and networking ,” Toni Feder <i>Physics Today</i> 74, 5, 23 (2021)	May 2021
“Veteran and CC transfer student heads to UCLA ,” Iqbal Pittalwala, <i>UCR News</i>	May 2021
“UCR accepted into Inclusion, Diversity and Equity Alliance,” Davina Garcia, <i>The Highlander</i>	Nov 2020
“Physics and Astronomy joins elite group promoting equity, diversity, and inclusion ,” Iqbal Pittalwala, <i>UCR News</i>	Oct. 2020
“Teaching: Assessment in a Continuing Pandemic,” Beckie Supiano, <i>The Chronicle of Higher Education</i>	Aug 2020
“Four professors honored with Senate Faculty Awards ,” Imran Ghori, <i>Inside UCR</i>	June 2020
“What Goes On in a Proton? Quark Math Still Conflicts With Experiments. ,” Charlie Wood, <i>Quanta Magazine</i>	May 2020
“Get to know 10 early-career theorists ,” Emily Ayshford <i>Symmetry Magazine</i>	Jul. 2019
“Massless particles can’t be stopped ,” Madeleine O’Keefe, <i>Symmetry Magazine</i>	Jul. 2019
“How Close Are We to Finding Dark Matter? ,” Paige Keipper, <i>Seeker</i>	Mar. 2019
“Physics undergraduate student headed to CERN,” Iqbal Pittalwala, <i>UCR News</i>	Dec. 2018
“Get to know 10 early-career theorists,” 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 Top 5% of all research outputs, #5 output from <i>Phys. Rev. Lett.</i> , 99th percentile for outputs of the same age and source.	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: <i>Physics Review D</i> (APS)	2014 – 2023
Referee: <i>Journal of High Energy Physics</i>	2020 – 2022
Referee: <i>Physics Letters B</i>	2022
Referee: <i>European Physical Journal C</i> (Springer)	2014, 2017 – 2018
Referee: <i>Physics of the Dark Universe</i> (Elsevier)	2013, 2015, 2023
Referee: <i>Annals of Physics</i> (Elsevier)	2013
Referee: <i>Europhysics Letters</i> (EPS)	2012

SERVICE

Member: <i>High Energy Physics Advisory Panel</i> (HEPAP) Advises the Federal Government on the national program in high energy physics. The panel is chartered by the Department of Energy and reports directly to the Associate Director, Office of High Energy Physics, Office of Science (DOE), and the Assistant Director, Mathematical & Physical Sciences Directorate (NSF)	2023 – 2026
Reviewer: Loyola University Chicago Invited confidential evaluation for a promotion to tenure	2023
Reviewer: Whitman College Faculty Personnel Committee Invited confidential reviewer for a promotion to full professor	2023

(Vice-)Chair: APS DPF JJ and Noriko Sakurai Dissertation Committee	2023 – 2025
Vice-chair (2023-24) and then chair (2024-25) of selection committee for the American Physical Society's Division of Particles and Fields	
Reviewer: UC HBCU Initiative	2023
In-person review committee for University of California	
Reviewer: DOE HEP Theory Comparative Review	2023
Mail-in reviewer for the Department of Energy's Office of Science	
Panelist: UC President's Postdoctoral Fellowship Program	2023
Panel review for Mathematics, Engineering, and Physical Sciences	
Reviewer: NSERC Discovery Grant	2022
Review for the Natural Sciences and Engineering Research Council of Canada.	
Liaison: Theory/Cosmic Frontier, Snowmass 2022 Community Planning Exercise	2020 – 2022
Decadal study to identify a scientific vision for the future of particle of physics in the US.	
Panelist: DOE FY22 HEP Intensity Frontier University Comparative Review	2021 – 2021
Reviewer: DOE FY22 HEP Intensity Frontier University Comparative Review	2021 – 2021
Off-Site Reviewer: UC President's Postdoctoral Fellowship Program	2018 – 2021
Finalist Interviewer: Paul & Daisy Soros Fellowships for New Americans	2020, 2022
Physics Reader: Paul & Daisy Soros Fellowships for New Americans	2018 – 2021
Organizing Committee: AIP Communicating Science Workshop	2018 – 2019
Faculty Research Video: UCR University Relations Video Department	Aug. 2023
Invited to present a one-minute summary of my research, shared on UCR Communications platforms.	
Advisory Committee: Advancement and Retention in Academe (ARA)	2023 –
Oversight for a UCR CNAS faculty mentoring program supported by a UCOP Advancing Faculty Diversity grant. PI: Patty Springer, director: Linda Walling	
Member: Diversity, Equity & Inclusion Climate Council	2023 –
Committee led by Vice Chancellor and Chief Diversity Officer for campus equity.	
Equity Advisor: UCR College of Natural and Agricultural Sciences	2022 –
Works with the Office of DEI and the dean to provide leadership in matters of equity, diversity, and inclusion for faculty recruitment and retention and graduate success.	
Workshop: UCR Science to Policy Certificate Program, communicating your science	Sep. 2022
Workshop on effective science communication as an early-career academic	
Panel: CNAS welcome for new undergraduate students	Sep. 2022
Presentation and panel discussion for incoming first year and transfer students.	
Reviewer: UCR Research & Economic Development NSF CAREER internal review	Jun. 2022
Internal feedback for UCR NSF CAREER proposals.	
Panelist: CNAS/Black Study Initiative Roundtable	May 2022
Invited panel to discuss potential interactions and synergies between faculty, students, and staff in CNAS and the Black Study Initiative at UCR	
Moderator: After Grad: Academic Pathways Week Keynote Panel, UCR GradSuccess	Nov. 2021
Invited moderator for a panel of first-generation UC faculty.	
Committee: UCEAP 3-year Summer Physics Program Review (UC Systemwide)	2019 – 2020
Speaker: UCR Science to Policy Certificate Program	2018
Led discussion and workshop on social media as an academic.	
Mentor: UCR Graduate Student Mentoring Program	2017 – 2018
Organized by UCR Graduate Division; mentees listed below.	
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

UNIVERSITY
SERVICE

DEPARTMENT COMMITTEES	Fall Chair: Colloquium Committee	2023 – 2024
	Coordinating and organizing fall quarter colloquia.	
	Faculty Editor: Hiring Committee: Advancing Faculty Diversity	2019 – 2020
	Stepped down due to COVID-19 family care commitments	
	Chair: Website & Display	2017 –
	Overhaul and maintenance of department's digital identity.	
	Outreach	2017 – 2018
	Graduate Diversity	2017 – 2021
	Department Climate Committee	2021 –
	Organizes department town halls.	
	Co-Chair: Summer Academy for HS teachers	2016 – 2018
	NSF-sponsored program for local physics high school teachers. Designed and initiated equity in physics book club component in 2019.	
	Faculty Hiring Committee: Early Universe	2016 – 2017
DEPARTMENT SERVICE	Chair: Open House Committee	2016 – 2022
	Led department participation in Riverside Long Night of Arts & Innovation 2017 and 2019; led department open house in conjunction with UCR Discovery Day in 2016 and 2017.	
	UCR-CC Bridge	2016 – 2017
	Ernest Ma Retirement Symposium	2016 – 2017
	Undergraduate Advising	2016 – 2018
	Included advising 9 undergraduate physics majors during this time.	
	Organizer: UCR Physics & Astronomy Spring Town Hall	May 2022
	Part of a series of town halls to improve the graduate student climate. This was moved to the auspices of the climate committee.	
	Organizer: Department Un-Town Hall	2022
	Small, informal meetings between department stakeholders to improve the department climate.	
	Speaker: Diversity, Equity, and Inclusion (UCR Physics 401 Professional Development)	Feb 2022
	Organizer: APS IDEA: UCR Team Lead	2020 – 2022
	American Physical Society network of teams to improve institutional equity.	
NON-UNIVERSITY SERVICE	Co-Founder, Advisor: Physics Organization for Women and the Underrepresented	2018 –
	Inclusive women-in-physics group to support under-represented students.	
	Social Media: Particle Theory Twitter (@UCR_HEP_Theory)	2017 – 2022
	Organizer: UCR Physics Hack Day	2016 – 2017
	Weekend student hackathon for digital science projects.	
MENTORING	Moderator: Victoria Reyes in conversation with Flip Tanedo	Oct. 2022
	Moderator for a discussion with Prof. Victoria Reyes on her new book, <i>Academic Outsider</i> . Hosted by Cellar Door Bookstore.	
	APS National Mentoring Community: Matthew Lugatiman	2022 –
	APS National Mentoring Community: Peter Carney	2022 –
	Cientifico Latino Mentoring Program: George Iskander	2019 – 2020
	APS National Mentoring Community: Sergio Garcia	2018 – 2019
	UCR Graduate Student Mentoring Program	2017 – 2018
OUTREACH	Pak Kau Lim, Yawei Qin, Joshua Raimist, Lexi Costantino, Nicholas Goman, Yunxiao Li	
	Paul & Daisy Soros Fellowship for New Americans: Laura Cheng	2017 – 2018
OUTREACH	Ask a Scientist: Sanford Underground Research Facility	2023
	Public question and answer session at the Sanford Lab Homestake Visitor Center in South Dakota	

Organizer: Physical & Natural Science Book Club (Cellar Door Bookstore)	2016 –
Monthly discussion of popular science books with members of the community	
Featured Scientist: STEM Trading Cards , Science Delivered	2020 – 2021
Science Pen-Pal: Letters to a Pre-Scientist program	2019 – 2020
Penl-Pal with a junior high student for one year.	
Organizer: UCR Summer Physics Teacher Academy, Women In Physics Book Club	2019 – 2020
Adoptee: $\Sigma\Pi\Sigma$ Adopt-A-Physicist program	2018 – 2019
Discussion leader: UC President’s Fellowship Spring Retreat; career navigation	2017
Science Ambassador: Science Hack Day San Francisco	2015
One of six invited scientists sponsored by Gordon & Betty Moore Foundation	
Blogger, organizer, editor: ParticleBites, a research digest	2013 –
Leads team of students who write about physics for the public.	
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
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“Scotohylology,” <i>Ologies</i> podcast interview by Alie Ward; rebroadcast on RadioLab	Feb. 2023
“Little Particles in a Big Universe,” virtual talk at FilSciHub, Philippines (remote)	Oct. 2022
“Year of ParticleBites,” virtual talk at Sustainable HEP 2nd ed., CERN (remote)	Sep. 2022
“Explainer Videos: scalable, inclusive, and metacognitive assessment,”	
Contributed talk at the APS April Meeting 2022, New York, NY	Apr. 2022
“Pursuing Diversity and Inclusion as an Early Career Scientist,”	
Invited talk at the APS April Meeting 2022, New York, NY	Apr. 2022
“Popular book discussions: a platform for equity in physics,” doi:10.26081/K6J330	
KITP Teachers’ Conference: Neutrinos and New Physics, Santa Barbara, CA	Mar. 2022
“#PhysicsMeetup: Little Particles in a Big Universe,” (video)	
ICTP Physics Without Frontiers: Philippines	Jul. 2021
Panel: <i>“Physics Education,”</i>	
UCR Summer Physics Teacher Academy	Jun. 2021
“Non-Traditional Assessment & Inclusivity in Physics,”	
UCR Summer Physics Teacher Academy	Jun. 2021
“The Secret Syllabus: Unwritten Rules for a Physics Major,”	
Invited talk, Physics 39 (1st year physics majors), UCR	Nov. 2020
“Radio Physics,” 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	2019, 2022
“Finding Your Voice: Storytelling Lessons for Scientists”	
2019 AAAS Meeting, invited panel from Science Friday; Washington DC	Feb. 2019
“Attending to Diversity In the Physics Classroom”	
UCR Summer Physics Teacher Academy Conference	Feb. 2019
“How to Fail as a Physics Major,”	
Invited talk, Physics 39 (1st year physics majors), UCR	Nov. 2019
Invited talk, Physics 39 (1st year physics majors), UCR	Nov. 2018
“Impostor Syndrome and Failure in College”	
UCR Society of Physics Students	Oct. 2018
“My New American Story”	
Paul & Daisy Soros Fellowships for New Americans Fall Conference Story Slam	Oct. 2018
“The Physics of Star Wars”	
UCR ARTSblock film screening and discussion	May 2018
“Breaking into Academia”	
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	Nov. 2020
	Middle School Symposium talk, Riverside STEM Academy	Sep. 2017
	High School Symposium talk, Riverside STEM Academy	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	Robert Clemenson , Visiting Ph.D student from Sussex (Advisor: Stephan Huber)	2022
	Yash Aggarwal , Ph.D student, UC Riverside (co-advisor: Anson D'Aloisio)	2019 –
	Alexandria Costantino , Ph.D student, UC Riverside	2018 – 2022
	Adam Green , Ph.D student, UC Riverside	2018 –
	Kuntal Pal , Ph.D student, UC Riverside (co-advisor: Jose Wudka)	2018 – 2023
	Ian Chaffey , Ph.D student, UC Riverside	2017 – 2022
POSTDOCTORAL SCHOLARS	Daneng Yang , Postdoctoral Scholar, UC Riverside (primary mentor: Hai-Bo Yu)	2021 –
	Aniket Joglekar , Postdoctoral Scholar, UC Riverside (primary mentor: Yanou Cui)	2017 – 2020
	Ran Huo , Postdoctoral Scholar, UC Riverside	2016 – 2018
UNDERGRADUATE STUDENTS	Matthew Lugatiman , undergraduate researcher, UC Riverside	2022 –
	Cecelia Ngo , undergraduate researcher, UC Riverside	2021 – 2022
	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/honors advisee, UC Riverside	2016 – 2017
HS STUDENTS	Nathan Kang (North Hollywood High School), Research Student	2022 –
	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	
	Rahul Rajkumar (Mathematics)	Jan. 2024
	Jialin Wang (Mathematics)	May 2023
	Elliott Vest (Mathematics)	Nov. 2022
	Erik Lloyd	Oct. 2021
	Gerardo Alvarez	Nov. 2019
	Andrew Birkey (Earth Sciences)	Oct. 2019
	Michael Shamma	Nov. 2019
	Amartya Mitra	Sep. 2017
	Lydia Elias	Sep. 2017
	Tao Ren	Sep. 2016
PHD DEFENSE	Non-Chair member of the UCR dissertation committee for the following students	
	Gerardo Alvarez	Sep. 2021
	Michael Shamma	Oct. 2019
	Tao Ren	Sep. 2019
	Mohammareza Zakeri	Jun. 2017