Jonathan L. Feng

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Appointments

2021 Distinguished Professor, University of California, Irvine.
2020 Chancellor's Professor, University of California, Irvine.
2006 Professor, University of California, Irvine.
2004 Associate Professor, University of California, Irvine.
2001 Assistant Professor, University of California, Irvine.
2000 Research Scientist, Massachusetts Institute of Technology.
1998 Member, Institute for Advanced Study, Princeton.
1995 Miller Research Fellow, University of California, Berkeley.

Education

1995 Stanford University.
Ph.D. in Physics.
1990 Cambridge University, Trinity College.
M.A. in Mathematics, First Class Honours with Distinction.
1988 Harvard University.
A.B. in Physics, *summa cum laude*.

Awards

2022 Dean's Honoree Award for Excellence in Undergraduate Teaching, UC Irvine.
2022 Outstanding Faculty Award for Graduate Teaching, UC Irvine.
2022 Finalist, Falling Walls Science Breakthrough of the Year in Physical Sciences.
2019 Distinguished Visitor, Inst. for Fundamental Theory, University of Florida.
2018 Heinz R. Pagels Memorial Lecturer, Aspen Center for Physics.
2016 Fellow, American Association for the Advancement of Science.
2015 Simons Investigator.
2014 Guggenheim Fellowship.
2014 CERN Scientific Associate.
2012 Simons Fellowship in Theoretical Physics.
2011 Member, Phi Tau Phi Scholastic Honor Society of America.
2010 Heinz R. Pagels Memorial Lecturer, Aspen Center for Physics.
2007 Fellow, American Physical Society.
2006 Chancellor's Fellow, UC Irvine.

2006 Kavli Frontier Fellow, National Academy of Sciences.
2004 Sloan Research Fellowship.
2004 Outstanding Young Researcher Award, International Association of Chinese Physicists and Astronomers.
2004 Distinguished Assistant Professor Award for Research, UC Irvine Academic Senate.
2003 CAREER Award, National Science Foundation.
2001 Michelson Postdoctoral Prize in Physics.
1996 Visiting Fellowship, Japan Society for the Promotion of Science.
1994 Phi Beta Kappa Graduate Scholarship.
1993 Kirkpatrick Award for Excellence in Teaching, Stanford University.
1991 Concerto Competition Winner, Stanford University.
1990 National Science Foundation Graduate Fellowship.
1988 Marshall Scholarship.
1987 TIME College Achievement Award.
1987 Phi Beta Kappa.
1985 Detur Prize, Harvard University.
1984 Presidential Scholar, California.

Professional Activities

- Forward Search Experiment (FASER) at the Large Hadron Collider, CERN
  Co-Spokesperson, 2018–present
- International Organization of Chinese Physicists and Astronomers (OCPA)
  Secretary, Vice-President, President, 2023–28
- Heising-Simons Foundation, Member, Science Advisory Board, 2022–present
- Symmetry Magazine, Member, Advisory Board, 2018–present
- Tsung-Dao Lee Institute, Shanghai, Member, International Advisory Committee, 2018–present
- Physics Reports, Editor, 2014–present
- Nuclear Physics B, Advisory Editor, 2014–present
- Open Physics, Editor-in-Chief, 2011–18
- arXiv.org E-print Archive, hep-ph Moderator, 2003–17
- Annals of Physics, Editor, 2002–12
- American Association for the Advancement of Science
  Electorate Nominating Committee, Section on Physics, 2020–24
  Fellow, 2016–present
  Member, 2012–present

- Aspen Center for Physics
  Trustee, 2022–23
  Treasurer, 2019–22
  Assistant Treasurer, 2017–19
  Member, 2012–present
  Chair and Member, Public Lectures and Dialogues, Admissions, and NSF Proposal Committees
- Kavli Institute for Theoretical Physics, Santa Barbara, Co-Chair, Steering Committee and Advisory Board, 2010–14
- American Physical Society
  Co-Convener, Cosmic Frontier, Community Planning Process (Snowmass) 2013
  Member, Executive Committee, Division of Particles and Fields, 2011–13
  Chair and Vice Chair, Selection Committee, Sakurai Prize, 2013–15
  Member, Selection Committee, Sakurai Dissertation Award in Theoretical Particle Physics, 2011–12
- Yodh Prize for Cosmic Ray Research, Secretary, Selection Committee, 2010–16
- National Research Council Decadal Survey on Astronomy and Astrophysics (Astro2010), Member, Cosmology and Fundamental Physics Panel, 2009–10
- DOE/NSF/NASA High Energy Physics Advisory Panel and Astronomy and Astrophysics Advisory Committee
  Member, Particle Physics Project Prioritization Panel (P5), 2013–14
  Member, DOE Office of High Energy Physics, Committee of Visitors, 2010
  Member, Dark Matter Scientific Assessment Group, 2006–07
  Member, Large Hadron Collider–International Linear Collider Subpanel, 2005
- Co-Convener, DOE Cosmic Visions Advisory Group, 2017
- Member, Provost and Executive Vice Chancellor Search Committee, UC Irvine, 2014–15
- ΦBK, UC Irvine Chapter
  Vice President, President, 2020-22
- Academic Senate, UC Irvine
  Member, Committee on Privilege and Tenure, Complaint Adv. Panel, 2023–26
  Member, Committee on Privilege and Tenure, 2010–12, 2013–14
  Member, Reserve Council on Academic Personnel, 2012–13, 2015–16
  Member, Committee on Committees, 2008–10, 2019–22
  Member, Council on Academic Personnel, 2007–08
- Department of Physics and Astronomy, UC Irvine
  Member, Executive Committee, 2017–present
  Founding Chair and Member, Awards Committee, 2016–present
  Founding Chair and Member, Reines Lecture Committee, 2014–present
  Member, Undergraduate Committee, 2006–10
  Chair, Faculty Search Committees, resulting in 13 faculty hires, 2004–present

- Advisory Council on Campus Climate, Culture, and Inclusion, UC Irvine
  Co-Founder and Organizing Committee Chair, What Matters to Me and Why speaker series, 2012–23
  Chair and Member, Diversity, Inclusion, and Programming Workgroup, 2012–present
- Center for Cosmology, UC Irvine
  Member, Executive Board, 2005–10
  Co-chair of the faculty committee charged with creating a cosmology group, resulting in the appointment of four cosmologists, 2003–04
- American Linear Collider Physics Group
  Co-leader, Connections to Cosmology and Astrophysics Subgroup, 2003–07
  Co-leader, Supersymmetry Subgroup, 2000–07
  Co-leader, e^-e^- Subgroup, 2000–02
- Particle Data Group Collaboration
  Overseeing editor and co-author, Reviews of the Top Quark, Exotic Quarks, WIMPs and Other Particle Searches, 1996–2008
- Review Panels and Visiting Committees
  Visiting Committee, SLAC, 2022; Visiting Committee, Fermilab, 2007; Visiting Committee, Kavli Institute for Cosmological Physics, Chicago, 2005; National Science Foundation; NASA
- Reviewer, Grant Proposals
  DOE, NSF, NASA, Simons Foundation, Research Corporation, Academia Sinica (Taiwan), Austrian Science Fund, Chilean National Science and Technology Commission, Israel Science Foundation, United States-Israel Binational Science Foundation, Netherlands Organization for Scientific Research, NSERC (Canada), Science and Technology Facilities Council (United Kingdom), Research Grants Council (Hong Kong), Swiss NSF, European Research Council (European Union)
- Reviewer, Journal Manuscripts
  Astroparticle Physics, Astrophysical Journal, European Physics Journal C, Journal of Cosmology and Astroparticle Physics, Journal of High Energy Physics, Journal of Physics A, Nuclear Physics B, Physical Review D, Physical Review Letters, Physics Letters A, Physics Letters B, Physics Reports, Reviews of Modern Physics

Recent Conference Organization

- Member, International Advisory Committee, 18th TeV Particle Astrophysics Conference (TeVPA24), Chicago, September 2024.
- Organizer, 29th International Symposium on Particles, Strings and Cosmology (PASCOS 2024), Quy Nhon, Vietnam, July 2024.
- Member, International Advisory Committee, 17th TeV Particle Astrophysics Conference (TeVPA23), Napoli, Italy, September 2023.

- Member, International Advisory Committee, 30th Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY23), Southampton, UK, July 2023.
- Member, International Advisory Committee, 16th TeV Particle Astrophysics Conference (TeVPA22), Queen's University, Canada, August 2022.
- Member, International Advisory Committee, 29th Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY22), Ioannina, Greece, July 2022.
- Member, International Advisory Committee, 28th Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY21), Beijing, China, July 2021.
- Member, International Advisory Committee, 15th TeV Particle Astrophysics Conference (TeVPA21), Chengdu, China, March 2021.
- Member, International Advisory Committee, 14th TeV Particle Astrophysics Conference (TeVPA19), Sydney, Australia, December 2019.
- Member, International Advisory Committee, 27th Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY19), Corpus Christi, Texas, May 2019.
- Member, International Advisory Committee, 13th TeV Particle Astrophysics Conference (TeVPA18), Berlin, Germany, August 2018.
- Member, International Advisory Committee, 26th Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY18), Barcelona, Spain, July 2018.
- Organizer, Simons Symposium: Illuminating Dark Matter, Schloss Elmau, Germany, May 2018.
- Member, International Advisory Committee, Origin of Mass at the High Energy and Intensity Frontier (MASS2018), CP^3 Origins, University of Southern Denmark, May 2018.
- Member, International Advisory Committee, 25th Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY17), Mumbai, India, December 2017.
- Member, International Advisory Committee, 12th TeV Particle Astrophysics Conference (TeVPA17), The Ohio State University, August 2017.
- Member, International Advisory Committee, 11th TeV Particle Astrophysics Conference (TeVPA16), CERN, Geneva, September 2016.
- Member, International Advisory Committee, 24th Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY16), Melbourne, Australia, July 2016.
- Member, International Advisory Committee, 10th TeV Particle Astrophysics Conference (TeVPA15), Tokyo, Japan, October 2015.

- Member, International Advisory Committee, 23rd Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY15), Lake Tahoe, California, August 2015.
- Member, International Advisory Committee, 22nd Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY14), Manchester, England, July 2014.
- Member, International Advisory Committee, Astroparticle Physics: A Joint TeVPA/IDM Conference, Amsterdam, June 2014.
- Member, Organizing Committee, Neutrinos Beyond IceCube, Arlington, Virginia, April 2014.
- Member, International Advisory Committee, The 10th International Symposium on Cosmology and Particle Astrophysics (CosPA13), Hawaii, November 2013.
- Member, International Advisory Committee, 21st Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY13), Trieste, Italy, August 2013.
- Member, International Advisory Committee, 9th TeV Particle Astrophysics Conference (TeVPA13), Irvine, August 2013.
- Member, Organizing Committee, Community Summer Study on the Future of U.S. Particle Physics (Snowmass 2013), Minnesota, July–August 2013.
- Scientific Advisor, Hunting for Dark Matter: Building a Cross-disciplinary, Multi-pronged Approach, Kavli Institute for Theoretical Physics, Santa Barbara, April-June 2013.
- Co-Chair, Organizing Committee, Cosmic Frontier Workshop, SLAC, March 2013.

Teaching

- Dean's Honoree Award for Excellence in Undergraduate Teaching, School of Physical Sciences, UC Irvine, 2022. Given annually to one of the 170 professors in the School of Physical Sciences.
- Outstanding Faculty Award for Graduate Teaching, Department of Physics and Astronomy, UC Irvine, 2022. Given annually to one of the 50 professors in the Department of Physics and Astronomy.
- Physics and Astronomy Nominee, Dean's Honoree Award for Excellence in Undergraduate Teaching, School of Physical Sciences, UC Irvine, 2017.
- Co-author, with J. Rosendahl, M. Dennin, and R. Newman, *Laboratory Manual for Physics 7L: Classical Physics*, Hayden-McNeil, Michigan, 2003-09 (1st-4th Editions), 2011-present (7LD 1st-2nd Editions).
- Kirkpatrick Teaching Award, 1993. Given annually to one Stanford doctoral candidate in physics for excellence in teaching.

- UC Irvine, Undergraduate Thesis Research Advised
  Melissa Tong, 2006-07, Outstanding Senior in Physics Award
  Michael Girard, 2010-11, Outstanding Senior in Physics Award
  Antoine Etheve, 2021-22, Honors in Physics
- UC Irvine, Introductory Undergraduate Courses Taught and Instructor Evaluations
  Physics 7D: Electricity and Magnetism for Scientists and Engineers
  Spring 2003, 249 students, 3.8 of 4.0
  Physics 7Dm: Electricity and Magnetism for Physics Majors (course created in 2004)
  Spring 2004, 20 students, 3.7 of 4.0 ; Spring 2005, 20 students, 3.7 of 4.0
  Physics 7E: Waves, Sound, and Light
  Fall 2005, 262 students, 3.7 of 4.0 ; Winter 2007, 116 students, 3.6 of 4.0
  Physics 7Em: Waves, Sound, and Light for Physics Majors
  Fall 2006, 13 students, 3.9 of 4.0 ; Fall 2007, 22 students, 3.9 of 4.0
  Fall 2008, 18 students, 4.0 of 4.0 ; Fall 2010, 21 students, 3.8 of 4.0
  Physics 7LB: Classical Physics Laboratory
  Winter 2003, 680 students, 5.6 of 7.0 ; Winter 2004, 724 students, 6.2 of 7.0
  Physics 7LC: Classical Physics Laboratory
  Winter 2019, 708 students, no eval ; Winter 2020, 625 students, no eval
  Physics 7LD: Classical Physics Laboratory
  Spring 2006, 663 students, 6.4 of 7.0 ; Spring 2007, 564 students, 4.4 of 7.0
  Spring 2012, 538 students, 6.0 of 7.0
- UC Irvine, Lower Division Undergraduate Courses Taught and Instructor Evaluations
  Physics 60: Thermal Physics
  Fall 2013, 32 students, 3.8 of 4.0 ; Fall 2014, 49 students, 3.8 of 4.0
  Fall 2015, 51 students, 3.8 of 4.0 ; Fall 2016, 63 students, 3.8 of 4.0
  Fall 2017, 69 students, 3.8 of 4.0 ; Fall 2018, 82 students, 3.9 of 4.0
  Fall 2019, 68 students, 3.8 of 4.0 ; Fall 2020, 87 students, NA
  Physics H90: The Physics of Sound and Light (Campuswide Honors Program)
  Winter 2018, 46 students, 3.7 of 4.0 ; Winter 2019, 58 students, 3.7 of 4.0
  Winter 2020, 52 students, 3.8 of 4.0 ; Winter 2021, 30 students, NA
  Winter 2022, 40 students, NA ; Winter 2023, 31 students, NA
  Winter 2024, 49 students, NA
- UC Irvine, Upper Division Undergraduate Courses Taught and Instructor Evaluations
  Physics 116: Relativity and Black Holes
  Fall 2013, 8 students, 4.0 of 4.0 ; Fall 2014, 25 students, 3.9 of 4.0
  Fall 2015, 23 students, 4.0 of 4.0 ; Fall 2016, 26 students, 3.7 of 4.0
  Physics 136: Introduction to Particle Physics
  Winter 2005, 2 students, 4.0 of 4.0 ; Winter 2006, 4 students, 3.8 of 4.0

- UC Irvine, Graduate Courses Taught and Instructor Evaluations
  Physics 234A: Elementary Particle Physics
  Winter 2009, 8 students, 4.0 of 4.0 ; Winter 2010, 6 students, 4.0 of 4.0
  Winter 2011, 4 students, NA ; Winter 2012, 6 students, 4.0 of 4.0
  Fall 2021, 10 students, NA ; Fall 2022, 7 students, NA
  Physics 234B: Advanced Elementary Particle Physics
  Spring 2009, 5 students, 3.9 of 4.0 ; Spring 2010, 7 students, 4.0 of 4.0
  Spring 2011, 3 students, 4.0 of 4.0 ; Spring 2012, 6 students, 4.0 of 4.0
  Winter 2022, 10 students, NA ; Winter 2023, 7 students, NA
  Winter 2024, 11 students, NA
  Physics 235A, 237A: Quantum Field Theory
  Fall 2002, 4 students, 3.9 of 4.0 ; Fall 2003, 4 students, 4.0 of 4.0
  Fall 2004, 7 students, 3.8 of 4.0
  Physics 395: Laboratory Teaching
  Spring 2012, 8 students, 4.0 of 4.0 ; Winter 2020, 5 students, 4.0 of 4.0

Outreach

- Lecturer, "What Matters to Me and Why," Office of the Chancellor, UC Irvine, 2024.
- Lecturer, "Discovering the Universe on a Shoestring Budget," Orange County Sigma Xi Meeting, 2022.
- Outstanding Public University Chapter Award, given to two chapters in the nation every three years, for outreach to first-generation students and underrepresented minorities, Phi Beta Kappa, August 2021.
- Panelist, Mission Possible: How Chapters Can Thrive Post-COVID, Phi Beta Kappa Triennial, August 2021.
- Chair, Panel on Undocumented in STEM, Conference for Undergraduate Women in Physics, UC Irvine, January 2020.
- Interviewed for articles for the general public in web and print media, including Washington Post, Los Angeles Times, USA Today, National Geographic, Financial Times, Business Insider, Chinese World Journal, Wired, Nature, Science, Scientific American, New Scientist, Sky and Telescope, Popular Science, Nova, Symmetry Magazine, Quanta Magazine, Nautilus.
- Member, Advisory Board, Symmetry Magazine, 2018–present.
- Chair and Member, Reines Lecture Committee, Irvine, California, 2014–present.
- Lecturer, "Faster, Smaller, Cheaper: Discovering the Universe on a Shoestring Budget," Heinz R. Pagels Memorial Lecture, Aspen, Colorado, August 2018.
- Lecturer, "The Search for Dark Matter and Dark Sectors," Orange County Astronomers General Meeting, Fullerton, California, June 2018.
- Lecturer, "Exploring the Universe," Orange County Math Circle, 4th-12th grade students, Newport Beach, California, February 2018.

- Chair, Public Lectures and Dialogues Committee, Aspen Center for Physics, Aspen, Colorado, 2014, 2016.
- Two one-hour interviews for the "Do You Know Show," KUCI radio program, hosted by Calvin Gantt, December 2013 and January 2014.
- Member, Organizing Committee, A Celebration of the Discovery of the Higgs Boson and Recent Advances in Particle Physics, hosted by the U.S. House Science and National Labs Caucus, Washington, D.C., November 2013.
- Narrator for "Extra Dimensions," Ph.D. Comics animation, Jorge Cham, with Daniel Whiteson and Jonathan Feng, 2012.
- Author, "Exploring the Dark Universe," review of *The 4% Universe* by Richard Panek, *American Scientist*, January-February 2012.
- Lecturer, "Dark Matter: WIMPs and Beyond," Science Forum Lecture Series, Chapman University, December 2011.
- Lecturer, "Dark Matter," TASI Public Lecture, Boulder, Colorado, June 2011.
- Narrator for "Dark Matters," Ph.D. Comics animation, Jorge Cham, with Daniel Whiteson and Jonathan Feng, 2011.
- Author, "Dark Worlds," Jonathan Feng and Mark Trodden, cover article for *Scientific American*, November 2010, one of three issues for which *Scientific American* was named Winner of the 2011 National Magazine Award in the category of Finance, Technology, and Lifestyle Magazines.
- Interviewed for Grassroots TV, Aspen, Colorado, 2010.
- Lecturer, "What's the Matter? The Search for Clues in our Cold, Dark Universe," Heinz R. Pagels Memorial Lecture, Aspen, Colorado, 2010.
- Lecturer, "The Quantum Universe," Inside Edge, Irvine, 2009.
- Lecturer, "The Large Hadron Collider: Earth-Eating Black Holes and Other Tall Tales," University Club Forum, Irvine, 2009.
- Lecturer, "Discovering a New Universe at the Smallest Scales," Osher Lifelong Learning Institute, Irvine, 2008.
- Lecturer, "Discovering the Quantum Universe," UC Irvine School of Physical Sciences Breakfast Series, 2006.
- Lecturer, "Einstein, String Theory, and the Future," in celebration of *Einstein*, an exhibit organized by the Skirball Cultural Center, Los Angeles the American Museum of Natural History, New York, and The Hebrew University of Jerusalem, 2005.
- Mentor, Career Day, McFadden Intermediate School, Santa Ana, 2005.
- Lecturer, UC Irvine Distinguished Professor Lectures, 2004.
- Lecturer, UC Irvine Executive Roundtable Retreat, 2004.
- Lecturer, "Black Holes, Dark Matter, and the Search for Extra Dimensions," UC Irvine School of Physical Sciences Breakfast Series, 2004.
- Lecturer, "Dark Matter, Black Holes, and the Search for Extra Dimensions," Orange County Sigma Xi Meeting, 2004.

- Faculty Mentor, UC Irvine QuarkNet, 2001-07. Designed and led Summer 2002 Associate Teachers Institute and follow-up meetings to introduce high school teachers and their students to frontier research in high energy physics.
- Michelson Postdoctoral Prize Lectures, 2001. Awarded annually to one junior scholar active in any field of physics for excellence in science and science communication.

Selected Recent and Upcoming Presentations

Jonathan L. Feng

- New Eyes for the LHC: FASER and the Forward Physics Facility, Physics and Astronomy Colloquium, University of Minnesota, 21 November 2024
- New Eyes for the Large Hadron Collider, MPS Annual Meeting, Simons Foundation, 17 October 2024
- FASER and the Forward Physics Facility, Physics Colloquium, University of Wisconsin, 27 September 2024
- The Forward Physics Facility and Astroparticle Physics, IceCube Collaboration Meeting, 26 September 2024
- ASTAE Panel: Forward Physics Facility, DPF-PHENO 2024, Pittsburgh, 16 May 2024
- FPF Mini-Symposium: Multimessenger Collider Physics, DPF-PHENO 2024, Pittsburgh, 15 May 2024
- Multimessenger Collider Physics, Physics Division Colloquium, Argonne National Laboratory, 10 May 2024
- FASER and the Forward Physics Facility, Physics Colloquium, University of Chicago, 9 May 2024
- Multimessenger Collider Physics, Joint Theoretical and Experimental Particle Physics Seminar, University of Maryland and Johns Hopkins University, 8 May 2024
- Forward Physics Facility: Status of the Collaboration and Prospects After P5, Physics Beyond Colliders Annual Workshop, 25 March 2024
- Introduction, 7th Forward Physics Facility Meeting, 29 February 2024
- FASER and the Future of Particle Physics, Physics and Astronomy Department Colloquium, UCLA, 2 November 2023
- The Dawn of Collider Neutrino Physics, Physical Review Letters Journal Club, on-line, 21 September 2023
- Quirks at Forward Detectors, FPF Theory Workshop, CERN and on-line, 18 September 2023
- Collider Searches for X17 and Other Light Gauge Bosons, 52nd International Symposium on Multiparticle Dynamics (ISMD 2023), Gyongyos, Hungary, 21 August 2023
- Long-Lived Particles and the Future of Particle Physics, The First International Congress of Basic Science (ICBS), Beijing, 21 July 2023
- First Results from the ForwArd Search ExpeRiment at CERN, Simons Foundation, 22 June 2023
- Long-Lived Particles and the Future of Particle Physics, CERN Colloquium and LLP13 Plenary Talk, 19 June 2023

- Welcome and Introduction, 6th Forward Physics Facility Meeting, CERN, 8 June 2023
- Forward Physics Facility, P5 Town Hall Meeting on the Future of High Energy Physics, Brookhaven National Laboratory, 12 April 2023
- Dark Matter Searches at Accelerators, Dark Matter 2023, UCLA, 29 March 2023
- First FASER Physics Results and the Forward Physics Facility, Aspen Winter Conference, 27 March 2023
- Introduction and Goals, 5th Forward Physics Facility Meeting, CERN, 15 November 2022
- Forward Physics Facility @ LHC: Physics Reach, Physics Beyond Colliders Annual Workshop, CERN, 8 November 2022
- FASER and Forward Physics at the LHC, Physics Department Colloquium, New Mexico State, 2 September 2022
- Neutrinos and Far-Forward Physics at the LHC, Physics/Theory Colloquium, Los Alamos National Laboratory, 11 August 2022
- Small- and Mid-Scale Experiments and Facilities at the Energy Frontier, Community Summer Study (Snowmass 2022), 17-26 July 2022
- Dark Matter and Dark Sectors, Community Summer Study (Snowmass 2022), 17-26 July 2022
- Forward Physics Facility at the High-Luminosity LHC, Community Summer Study (Snowmass 2022), 17-26 July 2022
- Opportunities with First Data, 4th FASER Collaboration Meeting, Geneva, 26-28 June 2022
- Curious Results beyond the Standard Model and Dark Matter, IUPAP Nuclear Science Symposium, Washington D.C., 14-15 June 2022
- Forward Physics Facility, XV International Conference on Interconnections between Particle Physics and Cosmology, Washington University, St. Louis, 6-10 June 2022
- Forward Physics Facility, Joint Experimental-Theoretical Physics Seminar, Fermilab, 13 May 2022
- FASER and Forward Physics at the LHC, Physics Department Colloquium, University of Florida, 14 April 2022
- Forward Physics Facility, Snowmass Energy Frontier Workshop, 28 March - 1 April 2022
- FASER and Forward Physics at the LHC, Physics Department Colloquium, Florida State University, 17 February 2022
- Long-lived Particles at (Future) Colliders, IAS Program on High Energy Physics, Hong Kong University of Science and Technology, 17-19 January 2022

- Looking Forward to Forward Physics, Physics Department Colloquium, Ohio State University, 7 December 2021
- New Signals at FASER and FASER2, Physics Beyond Colliders General Meeting, 3 December 2021
- Introduction and Welcome, 3rd Forward Physics Facility Meeting (FPF3), 25 October 2021
- Progress on the Forward Physics Facility, Physics Beyond Colliders BSM Working Group Meeting, 20 October 2021
- Theoretical Introduction to Possible Interpretations, Shedding Light on X17, Enrico Fermi Research Center, Rome, 6-8 September 2021
- Standard WIMPs, Dark Matter Summer School, Les Houches, France, July–August 2021
- Faster, Smaller, Cheaper: FASER and the New Frontier of Particle Searches at the LHC, Physics and Astronomy Department Colloquium, Stony Brook University, 23 February 2021
- Faster, Smaller, Cheaper: FASER and the New Frontier of Particle Searches at the LHC, Physics Department Colloquium, University of Oklahoma, 4 February 2021
- Faster, Smaller, Cheaper: FASER and the New Frontier of Particle Searches at the LHC, Physics Department Colloquium, University of Oregon, 7 January 2021
- FASER and the Forward Physics Facility, Light Dark World International Forum, Sydney, Australia, 14 December 2020
- LLP Detectors at the LHC, 8th Workshop on Long-Lived Particles at the LHC, 16 November 2020
- FPF Overview, Forward Physics Facility Kickoff Meeting, UC Irvine, 9 November 2020
- FASER, FASERν, and the Forward Physics Facility, Snowmass Community Planning Meeting, 7 October 2020
- Theory Update, 3rd Collaboration Meeting, FASER, 3 September 2020
- Accelerator Searches for the Dark Sector, The Almost Invisibles: Exploring the Weakly Coupled Universe, SLAC Summer Institute, 17-18 August 2020
- Forward Physics and BSM, Open Questions and New Ideas, Snowmass Energy Frontier Meeting, 20 July 2020
- Forward Physics Facility, Dark Sectors and Light, Long-Lived Particles, Joint Session of the Accelerator, Energy, and Rare Process Frontiers, Snowmass, 16 July 2020
- Forward Physics Facility, Open Questions and New Ideas, Joint Session of the Energy Frontier, Snowmass, 7 July 2020

- What Tools are Critical for Progress?, Cosmic Controversies, Kavli Institute for Cosmological Physics, Chicago, October 2019
- Faster, Smaller, Cheaper: the ForwArd Search ExpeRiment, Physics Department Colloquium, New York University, September 2019
- FASER, New Physics with Exotic and Long-Lived Particles, Joint ICISE-CBPF Workshop, Quy Nhon, Vietnam, July 2019
- Opening Theory Talk: LLP Ubiquity, New Physics with Exotic and Long-Lived Particles, ICISE-CBPF Workshop, Quy Nhon, Vietnam, July 2019
- FASER: ForwArd Search ExpeRiment, SUSY 2019, Texas A&M, Corpus Christi, May 2019
- Faster, Smaller, Cheaper: the ForwArd Search ExpeRiment at the LHC, Physics Department Colloquium, UC Irvine, May 2019
- Faster, Smaller, Cheaper: FASER and New Particle Searches on the Lifetime Frontier, Physics Department Colloquium, University of Washington, Seattle, April 2019
- FASER, PITT-PACC Workshop: BSM Circa 2020, University of Pittsburgh, March 2019
- FASER: Forward Search Experiment at the LHC, Annual Theory Meeting, National Center for Theoretical Science, Taiwan, December 2018
- FASER: Forward Search Experiment at the LHC, Physics Beyond Colliders Working Group Meeting, CERN, Geneva, June 2018
- Lifetime Frontier Experiments at the LHC, Simons Symposium: Illuminating Dark Matter, Schloss Elmau, Germany, May 2018
- Summary Talk: The Path Forward, Dark Matter Detection and Detectability: Paradigm Confirmation or Shift?, KITP, Santa Barbara, California, May 2018
- FASER and Other Outposts on the Lifetime Frontier, New Probes for Physics Beyond the Standard Model, KITP, Santa Barbara, California, April 2018
- MSSM4G: Motivations and Allowed Regions, ATLAS SUSY Working Group Meeting, January 2018
- Theory in the LHC Era, ICFA Seminar, Ottawa, Canada, November 2017
- FASER: ForwArd Search ExpeRiment at the LHC, Workshop on WIMP Dark Matter and Beyond, Shanghai Jiao Tong University, China, September 2017
- The Future of Dark Matter and Dark Forces, Symposium on the Future of Physics and Astronomy, T. D. Lee Institute, Shanghai, China, September 2017
- Dark Matter—Theory, Cosmic Opportunities, SLAC Summer Institute, August 2017

List of Publications

Jonathan L. Feng

24,200 citations, $h = 84$ (INSPIRE, April 2024, excluding Reviews of Particle Physics)

174. Search for Axion-Like Particles in Photonic Final States with the FASER Detector at the LHC, FASER Collaboration, R. M. Abraham *et al.*, including J. L. Feng, CERN–FASER–CONF–2024–001.

173. First Measurement of the ν_e and ν_μ Interaction Cross Sections at the LHC with FASER's Emulsion Detector, FASER Collaboration, R. M. Abraham *et al.*, including J. L. Feng, arXiv:2403.12520 [hep-ex].

172. Neutrino Rate Predictions for FASER, FASER Collaboration, R. M. Abraham *et al.*, including J. L. Feng, arXiv:2402.13318 [hep-ex].

171. Search for Dark Photons with the FASER Detector at the LHC, FASER Collaboration, H. Abreu *et al.*, including J. L. Feng, Phys. Lett. **B848**, 138378 (2024), arXiv:2308.05587 [hep-ex].

170. First Direct Observation of Collider Neutrinos with FASER at the LHC, FASER Collaboration, H. Abreu *et al.*, including J. L. Feng, Phys. Rev. Lett. **131**, 031801 (2023), arXiv:2303.14185 [hep-ex].

169. Shedding Light on X17, Daniele S. M. Alves *et al.*, including J. L. Feng, Eur. Phys. J. **C83**, 230 (2023).

168. Extending the Discovery Potential for Inelastic-Dipole Dark Matter with FASER, K. R. Dienes, J. L. Feng, M. Fieg, F. Huang, S. J. Lee, B. Thomas, Phys. Rev. **D107**, 115006 (2023), arXiv:2301.05252 [hep-ph].

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