

# CURRICULUM VITAE

## YANG-TING CHIEN

Physics and Astronomy Department, Georgia State University  
Science Annex Room 404, 29 Peachtree Center Ave SE, Atlanta, GA 30303  
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### Professional Appointments

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2021-present    Assistant Professor, Georgia State University.  
2021-2025      Bridge Staff, Jefferson Lab  
2019-2021      YITP-CFNS Fellow, Stony Brook University. Mentor: George Sterman  
2016-2019      LHC-TI Fellow, Massachusetts Institute of Technology. Mentor: Iain W. Stewart  
2013-2016      Research Associate, Los Alamos National Laboratory. Mentor: Ivan Vitev

### Education

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2007-2013      Ph.D., Physics, Harvard University. Advisor: Matthew D. Schwartz  
2006-2007\*     First Lieutenant, Military Service in Taiwan  
2004-2006      M.A., Physics, National Taiwan University. Advisor: George Wei-Shu Hou  
2000-2004      B.A., Physics and Mathematics, National Taiwan University

### Honors and Awards

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2025-2027      U.S. Department of Energy Funding for Accelerated, Inclusive Research [\$200000/3 years]  
2022-2027      U.S. Department of Energy Early Career Award [\$750000/5 years]  
2018            Young Scientist Award for Best Theory Presentation, XXVII Quark Matter  
2017            Young Researcher Fellowship, XXVI Quark Matter  
2016-2018      LHC Theory Initiative Fellowship [\$150000/2 years]  
2015            Young Researcher Fellowship, XXV Quark Matter  
2009-2011      Graduate Research Fellowship, Ministry of Education in Taiwan  
Fall 2008       GSAS Kao Fellowship, Harvard University  
2007-2008      Purcell Fellowship, Harvard University

### Professional Service

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- Departmental service, Georgia State University

- Physics and Astronomy colloquium committee chair, 2022 fall - 2025 spring
- Graduate student admission review, 2020 - present
- Journal Referee
  - Physical Review Letters (PRL), Physical Review C (PRC), Physical Review D (PRD), Journal of High Energy Physics (JHEP), Journal of Physics G (JPhysG)
- Grant Review
  - Department of Energy Nuclear Theory panel review
- Conference, Workshop and Seminar Organization
  - “8th International Conference on the Initial Stages in High-Energy Nuclear Collisions (IS 2025)”, Taipei, 2025
  - “13th Annual Large Hadron Collider Physics Conference (LHCP 2025)”, Taipei, May, 2025
  - “Heavy Ion Physics in the Era of the EIC”, INT, July 29 - August 23, 2024
  - 2nd workshop on “Advancing the understanding of non-perturbative physics using energy flows”, Stony Brook, November 6-9, 2023
  - “Advancing the understanding of non-perturbative physics using energy flows”, Stony Brook, September 19-22, 2022
  - “10th Annual Large Hadron Collider Physics Conference (LHCP 2022)”, Online, Taipei, May 16-20, 2022
  - “Flowing into the future: particle jets in quantum field theory and phenomenology”, Stony Brook, March 21-25, 2022
  - “Jet substructure for Heavy Ion collisions”, INT, August 9-13, 2021
  - “Jet Tools, the 2nd heavy-ion jet substructure workshop”, Bergen, May 13-17, 2019
  - “The definition of jets in a large background”, BNL, June 25-27, 2018
  - “Santa Fe jets and heavy flavor workshop”, Santa Fe, January 11-13, 2016
  - “Annual workshop on soft-collinear effective theory”, Santa Fe, March 25-27, 2015
  - “In-house phenomenology seminar”, Harvard University, 2012-2013

## Major Accomplishments

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- Heavy Ion Physics
  - First quantitative understanding of jet shape modification [Chien:2015].
  - First calculation of groomed momentum sharing distribution [Chien:2016].
  - First application of deep learning and telescoping deconstruction on jets [Chien:2018].
  - Most precise calculation of jet angularity at RHIC [Chien:2024].
- Effective Field Theory
  - First resummation of heavy jet mass at next-to-next-to leading order and next-to-next-to-next-to-leading logarithmic accuracy [Chien:2010].

- Most precise calculation of jet mass distribution at the LHC [Chien:2012].
- Identified soft-collinear mode in the factorization of jet cross sections [Chien:2015].
- Most precise calculation of boson-jet correlation at the LHC [Chien:2019].
- Jet Substructure
  - Introduced telescoping jets to probe energy flows in jets [Chien:2013].
  - Showed the isolation of hadronically decaying, boosted bosons [Chien:2017].
  - Introduced subtracted cumulant to mitigate large background [Chien:2019].
  - Introduced collinear drop for systematic soft QCD studies [Chien:2019].
  - Constructed two-particle correlation neural network for data analysis [Chen:2019].
  - Discovered the direct connection between hadronization and leading two hadron flavor correlation [Chien 2021].
  - First target jet substructure study for Electron Ion Collider [in preparation].
- Quantum Field Theory
  - Simplified the structure of multi-Wilson line operators through a mapping to anti-de Sitter space [Chien:2011].
  - Formulated the factorization of Standard Model cross sections at ultra-high energy [Chien:2018].
  - Investigated novel constraints on Standard Model parameters and beyond using dispersion relations [in preparation].
- Beyond the Standard Model Physics
  - Constructed bounds on anomalous Higgs interactions from low-energy and high-energy experiments [Chien:2015].

## Selected Publications

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- Y. T. Chien and S. Mantry,  
“Jet Charge with Global Event Shapes: Probing Quark Flavor Dynamics,”  
arXiv:2512.05199
- Y. T. Chien, O. Fedkevych, D. Reichelt and S. Schumann,  
“Jet angularities in dijet production in proton-proton and heavy-ion collisions at RHIC,”  
JHEP **07**, 230 (2024) [arXiv:2404.04168].
- Y. T. Chien, A. Deshpande, M. M. Mondal and G. Sterman,  
“Probing hadronization with flavor correlations of leading particles in jets,”  
Phys. Rev. D **105**, no.5, L051502 (2022) [arXiv:2109.15318].
- K. -F. Chen and Y. -T. Chien,  
“Deep learning jet substructure from two-particle correlation,”  
Phys. Rev. D **101**, no.11, 114025 (2020) [arXiv:1911.02020].

- Y. -T. Chien and I. Stewart,  
“Collinear drop,”  
JHEP **06**, 064 (2020) [arXiv:1907.11107].
- Y. -T. Chien and R. Elayavalli  
“Probing heavy ion collisions using quark and gluon jet substructure,”  
arXiv:1803.03589.
- Y. -T. Chien and I. Vitev,  
“Probing the hardest branching within jets in heavy ion collisions,”  
Phys. Rev. Lett. **119**, 112301 (2017) [arXiv:1608.07283].
- Y. -T. Chien, V. Cirigliano, W. Dekens, J. de Vries and E. Mereghetti,  
“Direct and indirect constraints on CP-violating Higgs-quark and Higgs-gluon interactions,”  
JHEP **1602**, 011 (2016) [arXiv:1510.00725].
- Y. -T. Chien and I. Vitev,  
“Towards the understanding of jet shapes and cross sections in heavy ion collisions using soft collinear effective theory,”  
JHEP **1605**, 023 (2016) [arXiv:1509.07257].
- Y. -T. Chien,  
“Telescoping jets: multiple event interpretations with multiple R’s,”  
Phys. Rev. D **90**, 054008 (2014) [arXiv:1304.5240].
- Y. -T. Chien, R. Kelley, M. D. Schwartz and H. X. Zhu,  
“Resummation of jet mass at hadron colliders,”  
Phys. Rev. D **87**, 014010 (2013) [arXiv:1208.0010].
- Y. -T. Chien, M. D. Schwartz, D. Simmons-Duffin and I. W. Stewart,  
“Jet physics from static charges in AdS,”  
Phys. Rev. D **85**, 045010 (2012) [arXiv:1109.6010].
- Y. -T. Chien and M. D. Schwartz,  
“Resummation of heavy jet mass and comparison to LEP data,”  
JHEP **1008**, 058 (2010) [arXiv:1005.1644].

## Selected Talks

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- “*Workshop summary*”  
Institute for Nuclear Theory embedded workshop: Heavy Ion Physics in the EIC Era, August 14th, 2024, Seattle, Washington, USA.
- “*Jet Substructure*”  
10th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2020), June 3rd, 2020, Online, Plenary talk.
- “*Latest Development in Jet Substructure Techniques*”  
2019 Meeting of the Division of Particles & Fields of the American Physical Society, July 30th, 2019, Northeastern University, Boston, Massachusetts, USA. Invited talk.
- “*Collinear Drop*”  
11th International Workshop on Boosted Object Phenomenology, Reconstruction and Searches (BOOST 2019), July 25th, 2019, MIT, Boston, Massachusetts, USA.

- “*Confronting Jet Quenching with Jet Grooming: Jet Mass Distributions in Heavy Ion Collisions*” 9th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2018), October 3rd, 2018, Aix-les-Bains, France.
- “*Possible Jet Measurements at EIC*” Electron-Ion Collider User Group Meeting, July 31, 2018, the Catholic University of America, Washington, D.C., USA. Invited talk.
- “*Probing Heavy Ion Collisions Using Quark and Gluon Jet Substructure with Machine Learning*” 27th International Conference on Ultrarelativistic Nucleus-nucleus Collisions (Quark Matter 2018), May 15th, Venice, Italy. Best theory parallel talk.
- “*Jet Substructure: Theory*” JETSCAPE Winter School and Workshop, January 5, 2018, Lawrence Berkeley National Laboratory, Berkeley, California, USA. Invited talk.

## Teaching and Outreach Experience

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- Assistant Professor, Georgia State University
  - “PHYS 2212K, Principle of Physics II”, Spring 2022
  - “PHYS 4410 Nuclear and Particle Physics”, Spring 2023
  - “PHYS 2211K, Principle of Physics I”, Spring 2024
  - “PHYS 4410 Nuclear and Particle Physics”, Spring 2025
- Teaching Fellow, Harvard University
  - “Physics 12a, Basic Mechanics”, Fall 2012
  - “Physics 15a, Introductory Mechanics and Relativity”, Fall 2011
  - “Physics 11a, Mechanics”, Fall 2010
  - “Physics 15c, Wave Phenomena”, Fall 2009
  - “Physics 251b, Advanced Quantum Mechanics II ”, Spring 2009
  - “Physics 251a, Advanced Quantum Mechanics I”, Fall 2008
- Teaching Assistant, National Taiwan University
  - “Advanced Classical Electrodynamics”, 2004-2006
  - “Quantum Physics”, 2005-2006
  - “Complex Analysis”, Spring 2005
  - “Special Functions and Group Theory ”, Fall 2004
- Student Mentor, Wu Chien-Shiung Education Foundation
  - “Wu Chien-Shiung Science Camp”, summer 2000-2007

## Advising

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- Oleh Fedkevych, currently postdoc fellow at Georgia State University

- Chris Meherg, currently Ph.D. student at Georgia State University
- Meng-Hsiu Kuo, former master student and research assistant at National Taiwan University, Taipei. Currently Ph.D. student at University of Tsukuba, Japan
- Nathan Gostin, former undergraduate student at Georgia State University. Currently Associate Engineer at IonQ
- Ravi Shankar Al-Sahalman, former undergraduate student at Georgia State University. Currently M.A. student at University of Georgia.
- Zach Montague, visiting student at MIT from August 28th to September 15th, 2017. Currently Ph.D. student at University of Washington, Seattle
- Alex Emerman, visiting student at LANL from March 25th to May 15th, 2015. Currently Ph.D. student at Columbia University

## Full List of Publications

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1. Y. T. Chien and S. Mantry,  
“Jet Charge with Global Event Shapes: Probing Quark Flavor Dynamics,”  
arXiv:2512.05199
2. L. Apolinário, Y. T. Chien and L. Cunqueiro Mendez,  
“Jet substructure,”  
Int. J. Mod. Phys. E **33**, no.07, 2430003 (2024)
3. Y. T. Chien, O. Fedkevych, D. Reichelt and S. Schumann,  
“Jet angularities in dijet production in proton-proton and heavy-ion collisions at RHIC,”  
JHEP **07**, 230 (2024) [arXiv:2404.04168].
4. R. Abir, I. Akushevich, T. Altinoluk, D. P. Anderle, F. P. Aslan, A. Bacchetta, *et al.*  
“The case for an EIC Theory Alliance: Theoretical Challenges of the EIC,”  
White Paper on EIC Theory Alliance, arXiv:2305.14572
5. M. Arslanok, S. A. Bass, A. A. Baty, I. Bautista, C. Beattie, F. Becattini, R. Bellwied, *et al.*  
“Hot QCD White Paper,”  
arXiv:2303.17254
6. C. Accettura, D. Adams, R. Agarwal, C. Ahdida, C. Aimè, N. Amapane, D. Amorim, *et al.*  
“Towards a muon collider,”  
Eur. Phys. J. C **83**, no.9, 864 (2023) [arXiv:2303.08533 [physics.acc-ph]].
7. P. Achenbach, D. Adhikari, A. Afanasev, F. Afzal, C. A. Aidala, A. Al-bataineh, *et al.*  
“The Present and Future of QCD,”  
QCD Town Meeting White Paper, arXiv:2303.02579 [hep-ph]
8. Y. Chen, A. Baty, D. Perepelitsa, C. McGinn, J. Thaler, M. Maggi, P. Chang, T. A. Sheng,  
Y. T. Chien and Y. J. Lee,  
“First measurement of anti- $k_T$  jet spectra and jet substructure using the archived ALEPH  $e+e-$  data at 91.2 GeV,”  
PoS ICHEP2022, 819 (2023) [arXiv:2211.13519].

9. Y. -T. Chien, R. Rahn, D. Y. Shao, W. J. Waalewijn and B. Wu,  
“Precision boson-jet azimuthal decorrelation at hadron colliders,”  
JHEP **02**, 256 (2023) [arXiv:2205.05104].
10. A. Accardi, Y. T. Chien, D. d’Enterria, A. Deshpande, C. Dilks, P. A. Gutierrez Garcia, *et al.*  
“Opportunities for precision QCD physics in hadronization at Belle II – a snowmass whitepaper,”  
arXiv:2204.02280
11. J. de Blas *et al.* [Muon Collider],  
“The physics case of a 3 TeV muon collider stage,”  
Contribution to Snowmass 2021, arXiv:2203.07261
12. C. Aime, A. Apyan, M. A. Mahmoud Mohammed, N. Bartosik, F. Batsch, A. Bertolin, *et al.*  
“Muon Collider Physics Summary,”  
Contribution to Snowmass 2021, arXiv:2203.07256.
13. Y. Chen, A. Badea, A. Baty, P. Chang, Y. T. Chien, G. M. Innocenti, M. Maggi, C. McGinn,  
D. V. Perepelitsa and M. Peters, *et al.*  
“Jet energy spectrum and substructure in  $e^+e^-$  collisions at 91.2 GeV with ALEPH Archived  
Data,”  
JHEP **06**, 008 (2022) [arXiv:2111.09914].
14. Y. T. Chien, A. Deshpande, M. M. Mondal and G. Sterman,  
“Probing hadronization with flavor correlations of leading particles in jets,”  
Phys. Rev. D **105**, no.5, L051502 (2022) [arXiv:2109.15318].
15. Y. Chen, Y. J. Lee, M. Maggi, P. Chang, Y. T. Chien, C. McGinn and D. Perepelitsa,  
“Analysis note: jet reconstruction, energy spectra, and substructure analyses with archived  
ALEPH data,”  
arXiv:2108.04877
16. R. Abdul Khalek, A. Accardi, J. Adam, D. Adamiak, W. Akers, M. Albaladejo, *et al.*  
“Science Requirements and Detector Concepts for the Electron-Ion Collider: EIC Yellow Re-  
port,”  
Nucl. Phys. A **1026**, 122447 (2022) [arXiv:2103.05419 [physics.ins-det]].
17. Y. -T. Chien, R. Rahn, S. S. van Velzen, D. Y. Shao, W. J. Waalewijn and B. Wu,  
“Azimuthal angle for boson-jet production in the back-to-back limit,”  
Phys.Lett.B 815 (2021) 136124 [arXiv:2005.12279].
18. K. -F. Chen and Y. -T. Chien,  
“Deep learning jet substructure from two-particle correlation,”  
Phys. Rev. D **101**, no.11, 114025 (2020) [arXiv:1911.02020].
19. Y. -T. Chien and I. Stewart,  
“Collinear drop,”  
JHEP **06**, 064 (2020) [arXiv:1907.11107].
20. Y. -T. Chien, D. Shou and B. Wu  
“Resummation of boson-jet correlation at hadron colliders,”  
JHEP **1911**, 025 (2019) [arXiv:1905.01335].

21. Y. -T. Chien,  
“Confronting jet quenching with jet grooming: jet mass distributions in heavy ion collisions,”  
PoS HardProbes2018 (2019) 098 [arXiv:1901.08587].
22. Y. -T. Chien,  
“Heavy ion jet physics studies using precision jet substructure and quark-gluon jet classification,”  
PoS HardProbes2018 (2019) 097 [arXiv:1901.08587].
23. Y. -T. Chien, D. Kang, K. Lee and Y. Makris,  
“Subtracted cumulants: mitigating large background in jet substructure,”  
Phys. Rev. D **100**, no. 7, 074030 (2019) [arXiv:1812.06977].
24. Y. -T. Chien,  
“Probing heavy ion collisions using quark and gluon jet substructure with machine learning,”  
Quark Matter 2018 proceeding, Nucl.Phys. A982 (2019) 619-622
25. Harry Arthur Andrews et al  
“Novel tools and observables for jet physics in heavy-ion collisions,”  
J. Phys. G **47**, no.6, 065102 (2020) [arXiv:1808.03689].
26. Y. -T. Chien and R. Elayavalli  
“Probing heavy ion collisions using quark and gluon jet substructure,”  
arXiv:1803.03589 Submitted to JHEP.
27. J. Gallicchio and Y. -T. Chien  
“Quit using pseudorapidity, transverse energy, and massless constituents,”  
arXiv:1802.05356
28. Y. -T. Chien and H. -n. Li  
“Factorization of Standard Model cross sections at ultra high energy,”  
Phys. Rev. D **97**, no. 5, 053006 (2018) [arXiv:1801.00395].
29. Y. -T. Chien, A. Emerman, S. -C. Hsu, S. Meehan and Z. Montague  
“Isolating color-singlet boson jets at the LHC using telescoping jet substructure,”  
Phys. Rev. D **101**, no.11, 114006 (2020) [arXiv:1711.11041].
30. Y. -T. Chien and I. Vitev,  
“Probing the hardest branching within jets in heavy ion collisions,”  
Phys. Rev. Lett. **119**, 112301 (2017) [arXiv:1608.07283].
31. Y. -T. Chien,  
“Towards the understanding of jet substructures and cross sections in heavy ion collisions using soft collinear effective theory,”  
PoS ICHEP2016 (2016) 379 [arXiv:1611.06948].
32. Y. -T. Chien,  
“Theory of hard probes in PbPb collisions,”  
PoS LHCP2016 (2016) 125 [arXiv:1609.05441].
33. Y. -T. Chien, Z. -B. Kang, F. Ringer, I. Vitev and H. Xing,  
“Jet fragmentation functions in proton-proton collisions using soft-collinear effective theory,”  
JHEP **1605**, 125 (2016) [arXiv:1512.06851].

34. Y. -T. Chien, V. Cirigliano, W. Dekens, J. de Vries and E. Mereghetti,  
“Direct and indirect constraints on CP-violating Higgs-quark and Higgs-gluon interactions,”  
JHEP **1602**, 011 (2016) [arXiv:1510.00725].
35. Y. -T. Chien and I. Vitev,  
“Towards the understanding of jet shapes and cross sections in heavy ion collisions using soft  
collinear effective theory,”  
JHEP **1605**, 023 (2016) [arXiv:1509.07257].
36. Y. -T. Chien, A. Hornig and C. Lee,  
“Soft-collinear mode for jet cross sections in soft collinear effective theory,”  
Phys. Rev. D **93**, no. 1, 014033 (2016) [arXiv:1509.04287].
37. Y. -T. Chien, A. Emerman, Z. -B. Kang, G. Ovanessian and I. Vitev,  
“Jet quenching from QCD evolution,”  
Phys. Rev. D **93**, no. 7, 074030 (2016) [arXiv:1509.02936].
38. Adams, D. Arce, A. Asquith, L. Backovic, M. Barillari, T. and others,  
“Towards an Understanding of the Correlations in Jet Substructure,”  
Eur. Phys. J. C **75**, no. 9, 409 (2015) [arXiv:1504.00679].
39. Y. -T. Chien,  
“Resummation of Jet Shapes and Extracting Properties of the Quark-Gluon Plasma,”  
Int.J.Mod.Phys.Conf.Ser. **37**, 0047 (2015) [arXiv:1411.0741].
40. Y. -T. Chien, D. Farhi, D. Krohn, A. Marantan, D. L. Mateos and M. D. Schwartz,  
“Quantifying the power of multiple event interpretations,”  
JHEP **1412**, 140 (2014) [arXiv:1407.2892].
41. Y. -T. Chien and I. Vitev,  
“Jet shape resummation using soft-collinear effective theory,”  
JHEP **1412**, 061 (2014) [arXiv:1405.4293].
42. Y. -T. Chien,  
“Jet physics at high energy colliders,”  
PhD Thesis, Harvard University (2013).
43. Y. -T. Chien,  
“Telescoping jets: multiple event interpretations with multiple R’s,”  
Phys. Rev. D **90**, 054008 (2014) [arXiv:1304.5240].
44. Y. -T. Chien, R. Kelley, M. D. Schwartz and H. X. Zhu,  
“Resummation of jet mass at hadron colliders,”  
Phys. Rev. D **87**, 014010 (2013) [arXiv:1208.0010].
45. Y. -T. Chien, M. D. Schwartz, D. Simmons-Duffin and I. W. Stewart,  
“Jet physics from static charges in AdS,”  
Phys. Rev. D **85**, 045010 (2012) [arXiv:1109.6010].
46. Y. -T. Chien and M. D. Schwartz,  
“Resummation of heavy jet mass and comparison to LEP data,”  
JHEP **1008**, 058 (2010) [arXiv:1005.1644].

47. Y. -T. Chien,  
“Final state rescattering in  $B \rightarrow PV$  decays,”  
Master Thesis, National Taiwan University (2006).

## Full List of Talks

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1. “*Probing the Trillion Degree Little Bang in Heavy Ion Collisions*”  
Physics colloquium, October 23rd, 2025, Vanderbilt University, Nashville, Tennessee, USA.
2. “*BOOST Camp (Theory)*”  
17th International Workshop on Boosted Object Phenomenology, Reconstruction and Searches (BOOST 2025), July 28th, 2025, Brown University, Providence, Rhode Island, USA.
3. “*Jet charge and one-jettiness at the EIC*”  
Workshop on PDFs in the EIC era, June 16th, 2025, Academia Sinica, Taipei, Taiwan.
4. “*Resummation of Flattened Jet Angularity Using Soft-Collinear Effective Theory*”  
High Energy Theory Seminar, June 13th, 2025, Academia Sinica, Taipei, Taiwan.
5. “*Resummation of Flattened Jet Angularity Using Soft-Collinear Effective Theory*”  
High Energy Theory Seminar, June 13th, 2025, Academia Sinica, Taipei, Taiwan.
6. “*Resummation of Flattened Jet Angularity Using Soft-Collinear Effective Theory*”  
QCD Evolution workshop, May 19th, 2025, Jefferson Laboratory, Newport News, Virginia, USA.
7. “*Probing hadronization and quark-gluon plasma using collinear-drop jet observables at RHIC*”  
12th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2024), September 23rd, 2024, Nagasaki, Japan.
8. “*Student lecture: jets and high  $p_t$* ”  
12th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2024), September 22nd, 2024, Nagasaki, Japan.
9. “*Workshop summary*”  
Institute for Nuclear Theory embedded workshop: Heavy Ion Physics in the EIC Era, August 14th, 2024, Seattle, Washington, USA.
10. “*Target Jet Substructure and Correlation*”  
Institute for Nuclear Theory program: Heavy Ion Physics in the EIC Era, August 14th, 2024, Seattle, Washington, USA.
11. “*Probing hadronization and quark-gluon plasma using jet observables at RHIC*”  
High Energy Theory Seminar, July 3rd, 2024, Academia Sinica, Taipei, Taiwan.
12. “*Target Jet Substructure and Correlation*”  
2nd workshop on advancing the understanding of non-perturbative QCD using energy flow, November 6th, 2023, Stony Brook, New York, USA.
13. “*Probing Hadronization with Flavor Correlation of Leading Particles in Jets*”  
Particle and nuclear physics seminar, November 3rd, 2023, Wayne State University, Detroit, USA.
14. “*Probing the Trillion Degree Little Bang in Heavy Ion Collisions*”  
Physics colloquium, October 13th, 2023, Kennesaw State University, Kennesaw, Georgia, USA.

15. “*Target Jet Substructure and Correlation*”  
30th International Conference on Ultrarelativistic Nucleus-nucleus Collisions (Quark Matter 2023), September 5th, Houston, USA.
16. “*Probing hadronization and target fragments through substructure*”  
“The Future is Non-perturbative” workshop, June 8th, 2023, National Center for Theoretical Physics, Hsinchu, Taiwan.
17. “*Precision Boson-jet Azimuthal Decorrelation at Hadron Colliders*”  
High Energy Theory Seminar, May 19th, 2023, Academia Sinica, Taipei, Taiwan.
18. “*Target Fragmentation: ep and eA Theory – Target Jet Substructure and Correlation*”  
1st International Workshop on a 2nd Detector for the EIC, May 18th, 2023, Temple University, Philadelphia, Pennsylvania, USA (remote).
19. “*Target Jet Substructure and Correlation*”  
Theory Seminar, May 3rd, 2023, Jefferson Laboratory, Newport News, Virginia, USA.
20. “*Target Jet Substructure and Correlation*”  
Deep Inelastic Scattering (DIS) 2023, March 28th, 2023, East Lansing, Michigan, USA.
21. “*Probing Hadronization with Flavor Correlation of Leading Particles in Jets*”  
Nuclear physics seminar, March 13th, 2023, University of California, Los Angeles, USA.
22. “*Precision Boson-jet Azimuthal Decorrelation at Hadron Colliders*”  
QCD journal club, December 14th, 2022, National Yang Ming Chiao Tung University, Hsinchu, Taiwan.
23. “*Probing the Trillion Degree Little Bang in Heavy Ion Collisions*”  
Physics colloquium, December 13th, 2022, National Taiwan University, Taipei, Taiwan.
24. “*Deep Learning Jet Substructure from Two Particle Correlation*”  
High energy physics journal club, December 5th, 2022, National Taiwan University, Taipei, Taiwan.
25. “*Heavy-ion to EIC physics*”  
9th Workshop for Early-Career Heavy-Ion Physicists (Hot Quarks 2022), October 16th, 2022, Dao House, Estes Park, Colorado, USA. Invited lecture.
26. “*Probing Hadronization with Flavor Correlation of Leading Particles in Jets*”  
Physics seminar, October 7th, 2022, Brookhaven National Laboratory, Upton, New York, USA. Invited talk. Remote.
27. “*Probing the Trillion Degree Little Bang in Heavy Ion Collisions*”  
Physics colloquium, September 12th, 2022, Georgia Institute of Technology, Atlanta, Georgia, USA.
28. “*Probing Hadronization with Flavor Correlation of Leading Particles in Jets*”  
High Energy Theory Seminar, September 7th, 2022, Academia Sinica, Taipei, Taiwan.
29. “*Recoil-free Jet Observables at sPHENIX*”  
Predictions for sPHENIX workshop, July 21st, 2022, Brookhaven National Laboratory, Upton, New York, USA. Invited talk.

30. “*Probing Hadronization with Flavor Correlation of Leading Particles in Jets*”  
41st International Conference on High Energy Physics (ICHEP 2022), Bologna, Italy, July 7th, 2022, Online.
31. “*Precision Boson-jet Azimuthal Decorrelation at Hadron Colliders*”  
Jet Physics: from RHIC/LHC to EIC, June 30th, 2022, Stony Brook University, Stony Brook, New York, USA.
32. “*Probing Hadronization with Flavor Correlation of Leading Particles in Jets*”  
Deep Inelastic Scattering (DIS) 2022, Santiago de Compostela, Spain, May 3rd, 2022, Online.
33. “*Target fragment substructure and its Soft Collinear Effective Theory*”  
CFNS Ad-hoc workshop: Target fragmentation and diffraction with novel processes, February 10th, 2022, Online.
34. “*Probing Hadronization with Flavor Correlation of Leading Particles in Jets*”  
Heavy Ion Tea (HIT) seminar, Lawrence Berkeley National Laboratory, October 19th, 2021, Online.
35. “*Deep Learning Jet Substructure from Two Particle Correlation*”  
RHIP seminar, University of Tennessee Knoxville, June 15, 2021, Online.
36. “*Jet Physics in High Energy Collisions*”  
Graduate Research Seminar, Georgia State University, February 11th, 2021, Online.
37. “*Precision Jet/Event Substructure using Collinear Drop*”  
40th International Conference on High Energy Physics (ICHEP 2020), July 28th, 2020, Online.
38. “*Jet Substructure*”  
10th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2020), June 3rd, 2020, Online, Plenary talk.
39. “*Resummation of Boson-Jet Correlation at Hadron Colliders*”  
CFNS Lunch Seminar, March 13, 2020, Stony Brook University, Stony Brook, New York, USA.
40. “*Femto to Attometer Probes of Quark Matter*”  
Department of Physics and Astronomy Colloquium, March 10, 2020, Georgia State University, Atlanta, Georgia, USA.
41. “*Flattened Jet Angularity*”  
5th Santa Fe Jets and Heavy Flavor Workshop, February 3rd, 2020, Inn and Spa at Loretto, Santa Fe, New Mexico, USA.
42. “*Deep Learning Jet Substructure from Two Particle Correlation*”  
Theory seminar, January 22, 2020, Jefferson Laboratory, Newport News, Virginia, USA.
43. “*Deep Learning Jet Substructure from Two Particle Correlation*”  
ML4Jets workshop, January 13, 2020, New York University, New York, USA.
44. “*Deep Learning Jet Substructure from Two Particle Correlation*”  
Particle Physics in Computing Frontiers, December 11, 2019, Institute for Basic Science, Daejeon, Korea. Invited talk.
45. “*Precision Jet (Event) Substructure*”  
CFNS Annual Review, December 5, 2019, Stony Brook University, Stony Brook, New York, USA.

46. “*Collinear Drop*”  
 XLIX International Symposium on Multiparticle Dynamics, September 9th, 2019, Hotel Santa Fe, Santa Fe, New Mexico, USA. Invited talk.
47. “*Latest Development in Jet Substructure Techniques*”  
 2019 Meeting of the Division of Particles & Fields of the American Physical Society, July 30th, 2019, Northeastern University, Boston, Massachusetts, USA. Invited talk.
48. “*Collinear Drop*”  
 11th International Workshop on Boosted Object Phenomenology, Reconstruction and Searches (BOOST 2019), July 25th, 2019, MIT, Boston, Massachusetts, USA.
49. “*Collinear Drop Quark/Gluon Jet Substructure*”  
 13th Particle Physics Phenomenology workshop (PPP13), June 4th, 2019, National Taiwan Normal University, Taipei, Taiwan.
50. “*Probing Heavy Ion Collisions Using Precision Jet Substructure*”  
 High Energy Physics Seminar, May 30th, 2019, National Taiwan Normal University, Taipei, Taiwan. Invited talk.
51. “*Collinear Drop*”  
 16th Annual Workshop on Soft-Collinear Effective Theory (SCET2019), March 26th, 2019, UC San Diego, California, USA. Invited talk.
52. “*Searching for New QCD Signatures in Soft Jet Substructure*”  
 Joint BNL and CFNS seminar, February 7th, 2019, Brookhaven National Laboratory, Upton, New York, USA. Invited talk.
53. “*Collinear Drop*”  
 4th Santa Fe Jets and Heavy Flavor Workshop, January 30th, 2019, UC Los Angeles, California, USA.
54. “*Collinear Drop*”  
 QCD/LHC/DM/BSM journal club, December 18, 2018, MIT, Cambridge, Massachusetts, USA.
55. “*Probing Heavy Ion Collisions Using Quark and Gluon Jet Substructure*”  
 9th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2018), October 3rd, 2018, Aix-les-Bains, France.
56. “*Confronting Jet Quenching with Jet Grooming: Jet Mass Distributions in Heavy Ion Collisions*”  
 9th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2018), October 3rd, 2018, Aix-les-Bains, France.
57. “*Collinear Drop*”  
 CFNS seminar, August 2nd, 2018, Brookhaven National Laboratory, Upton, New York, USA. Invited talk.
58. “*Possible Jet Measurements at EIC*”  
 Electron-Ion Collider User Group Meeting, July 31, 2018, the Catholic University of America, Washington, D.C., USA. Invited talk.
59. “*Telescoping Deconstruction and Collinear Drop*”  
 Probing Quark-Gluon Matter with Jets workshop, July 25th, 2018, Brookhaven National Laboratory, Upton, New York, USA. Invited talk.

60. *“Telescoping Deconstruction and Collinear Drop”*  
10th International Workshop on Boosted Object Phenomenology, Reconstruction and Searches (BOOST 2018), July 19th, 2018, Paris, France.
61. *“Probing Heavy Ion Collisions Using Quark and Gluon Jet Substructure”*  
2018 RHIC & AGS Annual Users’ Meeting, June 12th, 2018, Brookhaven National Laboratory, Upton, New York, USA. Invited talk.
62. *“Probing Heavy Ion Collisions Using Quark and Gluon Jet Substructure with Machine Learning”*  
27th International Conference on Ultrarelativistic Nucleus-nucleus Collisions (Quark Matter 2018), May 15th, Venice, Italy. Best theory parallel talk.
63. *“Probing Heavy Ion Collisions Using Quark and Gluon Jet Substructure”*  
Heavy Ion Journal Club, Theory Division, CERN, May 7th, Geneva, Switzerland. Invited talk.
64. *“Probing Heavy Ion Collisions Using Jet Substructure”*  
High Energy Physics In-house Phenomenology Seminar, April 25th, 2018, Harvard University, Cambridge, Massachusetts, USA. Invited talk.
65. *“Probing Heavy Ion Collisions Using Quark and Gluon Jet Substructure”*  
LNS Lunchtime Seminar, MIT, April 3rd, Cambridge, Massachusetts, USA. Invited talk.
66. *“Telescoping Deconstruction”*  
15th Annual Workshop on Soft-Collinear Effective Theory (SCET2018), March 21st, 2018, Amsterdam, Netherland.
67. *“Telescoping Jet Substructure”*  
QHP Seminar, March 6th, 2018, Theoretical Research Division of Nishina Center, RIKEN, Wako, Japan.
68. *“Jet Spectroscopy Method Using Telescoping Subjets”*  
3rd Santa Fe Jets and Heavy Flavor Workshop, January 29th, 2018, Inn and Spa at Loretto, Santa Fe, New Mexico, USA. Invited talk.
69. *“Perspectives on the Future of Substructure”*  
MIT Jet Workshop, MIT, January 11th, Cambridge, Massachusetts, USA. Invited talk.
70. *“Jet Substructure: Theory”*  
JETSCAPE Winter School and Workshop, January 5, 2018, Lawrence Berkeley National Laboratory, Berkeley, California, USA. Invited talk.
71. *“Learning More About QCD”*  
Machine Learning for Jet Physics workshop, December 12, 2017, Lawrence Berkeley National Laboratory, Berkeley, California, USA. Invited talk.
72. *“Probing Heavy Ion Collisions Using Quark and Gluon Jet Substructure with Machine Learning”*  
QHP Seminar, November 24th, 2017, Theoretical Research Division of Nishina Center, RIKEN, Wako, Japan.
73. *“Precision Jet Substructure using Soft Collinear Effective Theory”*  
Workshop of Recent Developments in QCD and Quantum Field Theories, November 9th, 2017, National Taiwan University, Taipei, Taiwan.
74. *“Telescoping Jet Substructure and Deconstruction”*  
High Energy Physics Journal Club, November 6th, 2017, National Taiwan University, Taipei, Taiwan.

75. *“Probing the Hardest Branching within Jets in Heavy Ion Collisions”*  
High Energy Theory Seminar, November 1st, 2017, Academia Sinica, Taipei, Taiwan. Invited talk.
76. *“Groomed Jet Substructures in Heavy Ion Collisions”*  
5th Heavy-Ion Jet Workshop, August 22th, 2017, CERN, Geneva, Switzerland. Invited talk.
77. *“Scrutinizing Jets with Grooming and Telescoping Deconstruction”*  
T-2 Nuclear and Particle Theory Seminar, August 9th, 2017, Los Alamos National Laboratory, Los Alamos, New Mexico, USA.
78. *“Confronting Jet Quenching with Jet Grooming: Splitting Function and Jet Mass Distribution in Heavy Ion Collisions”*  
9th International Workshop on Boosted Object Phenomenology, Reconstruction and Searches (BOOST 2017), July 17th, 2017, Buffalo, New York, USA.
79. *“Fantastic Jet Substructures and Where to Find Them”*  
2017 RHIC & AGS Annual Users’ Meeting, June 20th, 2017, Brookhaven National Laboratory, Upton, New York, USA. Invited talk.
80. *“Splitting Functions and Jet Mass Distributions in Heavy Ion Collisions”*  
14th Annual Workshop on Soft-Collinear Effective Theory (SCET2017), March 15th, 2017, Detroit, Michigan, USA.
81. *“Subjet Distributions in Heavy Ion Collisions”*  
2nd Santa Fe Jets and Heavy Flavor Workshop, February 13th, 2017, Inn and Spa at Loretto, Santa Fe, New Mexico, USA. Invited talk.
82. *“Confronting Jet Quenching with Jet Grooming: Jet Substructure in Heavy Ion Collisions”*  
LHC Theory Initiative Fellows Meeting 2017, February 10th, 2017, SLAC National Accelerator Laboratory, Menlo Park, California, USA.
83. *“Splitting Functions and Subjet Distributions in Heavy Ion Collisions”*  
26th International Conference on Ultrarelativistic Nucleus-nucleus Collisions (Quark Matter 2017), February 2nd, Chicago, Illinois, USA. Poster presentation.
84. *“Pushing the Extremes: Jet Physics at High Energy Colliders”*  
Physics colloquium, January 31st, 2017, Kennesaw State University, Kennesaw, Georgia, USA.
85. *“Thoughts on Future Jet Observables”*  
Recent RHIC and LHC Results and Their Implications for Heavy Ion Physics in the 2020’s, October 29th, 2016, MIT, Cambridge, Massachusetts, USA. Invited talk.
86. *“Towards the Understanding of Jet Substructures and Cross Sections in Heavy Ion Collisions Using Soft-Collinear Effective Theory”*  
38th International Conference on High Energy Physics (ICHEP 2016), August 4th, Chicago, Illinois, USA.
87. *“Jet Mass Distribution and Jet Substructure”*  
4th Heavy-Ion Jet Workshop, July 27th, 2016, Ecole Polytechnique, Palaiseau, France. Invited talk.
88. *“Soft-Collinear Mode for Jet Cross Sections in Soft Collinear Effective Theory”*  
High Energy Theory Seminar, June 16th, 2016, Niels Bohr International Academy, Copenhagen, Denmark. Invited talk.

89. *“Theory of Hard Probes in PbPb Collisions”*  
Fourth Annual Large Hadron Collider Physics Conference (LHCP 2016), June 15th, Lund, Sweden. Invited talk.
90. *“Energy Profile and Hadron Fragmentation Inside Jets”*  
Theorie Palaver, June 13th, 2016, Johannes Gutenberg Universitat, Mainz, Germany. Invited talk.
91. *“Jet Theory: Precision Jet Physics Using Soft-Collinear Effective Theory”*  
2016 RHIC & AGS Annual Users’ Meeting, June 8th, 2016, Brookhaven National Laboratory, Upton, New York, USA. Invited talk.
92. *“Precision Theory and Jet Mass Distributions”*  
11th International Workshop on High-pT Physics in the RHIC & LHC Era, April 12th, 2016, Brookhaven National Laboratory, Upton, New York, USA. Invited talk.
93. *“Soft-Collinear Mode for Jet Cross Sections in Soft Collinear Effective Theory”*  
Particle Theory Seminar, March 29th, 2016, Harvard University, Cambridge, Massachusetts, USA. Invited talk.
94. *“Jet Fragmentation Function in Proton-Proton Collisions Using Soft Collinear Effective Theory”*  
High Energy Theory Seminar, February 25th, 2016, Academia Sinica, Taipei, Taiwan. Invited talk.
95. *“Towards the Understanding of Jet Shapes and Cross Sections in Heavy Ion Collisions Using Soft-Collinear Effective Theory”*  
High Energy Theory Seminar, February 24th, 2016, National Central University, Jhongli, Taiwan. Invited talk.
96. *“Soft-Collinear Mode for Jet Cross Sections in Soft Collinear Effective Theory”*  
High Energy Physics Journal Club, February 22nd, 2016, National Taiwan University, Taipei, Taiwan. Invited talk.
97. *“Jet Substructures and Cross Sections in Proton and Heavy Ion Collisions”*  
1st Santa Fe Jets and Heavy Flavor Workshop, January 12th, 2016, Inn and Spa at Loretto, Santa Fe, New Mexico, USA.
98. *“Jet Physics in Heavy Ion Collisions as a Probe of the Quark-Gluon Plasma”*  
T-2 Group meeting, October 20th, 2015, Los Alamos National Laboratory, Los Alamos, New Mexico, USA.
99. *“Towards the Understanding of Jet Shapes and Cross Sections in Heavy Ion Collisions Using Soft-Collinear Effective Theory”*  
QHP Seminar, October 7th, 2015, Theoretical Research Division of Nishina Center, RIKEN, Wako, Japan.
100. *“Towards a Unified Picture of Jet Modifications in the QGP Using Soft-Collinear Effective Theory”*  
25th International Conference on Ultrarelativistic Nucleus-nucleus Collisions (Quark Matter 2015), September 29th, 2015, Kobe, Japan. Poster presentation.
101. *“Telescoping Jet Substructure”*  
7th International Workshop on Boosted Object Phenomenology, Reconstruction and Searches (BOOST 2015), August 12th, 2015, Chicago, Illinois, USA.

102. “*Calculating Jet Shape Modifications and Jet Energy Loss in Heavy Ion Collisions Using Soft-Collinear Effective Theory*”  
7th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2015), July 1st, 2015, McGill University, Montreal, Quebec, Canada.
103. “*Jet Shape Resummation Using Soft-Collinear Effective Theory*”  
12th Conference on the Interactions of Particle and Nuclear Physics (CIPANP 2015), May 24th, 2015, Vail, Colorado, USA. Invited talk.
104. “*Calculating Jet Energy Loss and Jet Shape Modifications in Heavy Ion Collisions Using Soft-Collinear Effective Theory*”  
T-2 Seminar, May 12th, 2015, Los Alamos National Laboratory, Los Alamos, New Mexico, USA.
105. “*Jet Energy Loss and Modifications in Heavy Ion Collisions*”  
12th Annual Workshop on Soft-Collinear Effective Theory (SCET2015), March 27th, 2015, Inn and Spa at Loretto, Santa Fe, New Mexico, USA.
106. “*Jet Physics in Heavy Ion Collisions Using Soft-Collinear Effective Theory*”  
High Energy Physics Theory Seminar, March 13th, 2015, Academia Sinica, Taipei, Taiwan.
107. “*Jet Shapes in Proton and Heavy Ion Collisions*”  
High Energy Physics Theory Seminar, March 11th, 2015, National Taiwan University, Taipei, Taiwan.
108. “*Calculating Jet Shape Modifications in Heavy Ion Collisions Using Soft-Collinear Effective Theory*”  
31st Winter Workshop on Nuclear Dynamics, January 29th, 2015, Keystone Resort, Colorado, USA.
109. “*Resummation of Jet Shapes and Extracting Properties of the Quark-Gluon Plasma*”  
37th International Conference on High Energy Physics (ICHEP 2014), July, Valencia, Spain. Invited talk but could not attend.
110. “*Multiple Event Interpretations in Jet Physics*”  
Santa Fe 2014 Summer Workshop ”LHC After the Higgs”, July 1st, 2014, Santa Fe, New Mexico, USA.
111. “*Elucidating the Internal Structure of Jets at the LHC using Soft-Collinear Effective Theory*”  
24th International Conference on Ultrarelativistic Nucleus-nucleus Collisions (Quark Matter 2014), May 20th, 2014, Darmstadt, Germany. Poster presentation.
112. “*A Unified Picture of Parton Multiple Scattering in the Small-x Regime and Forward Physics at RHIC and the LHC*”  
24th International Conference on Ultrarelativistic Nucleus-nucleus Collisions (Quark Matter 2014), May 19th, 2014, Darmstadt, Germany.
113. “*Resummation of Jet Shapes and Extracting Properties of the Quark-Gluon Plasma*”  
QCD Evolution Workshop 2014, May 13th, 2014, Santa Fe, New Mexico, USA.
114. “*Resumming Phase Space Logarithms in Jet Shapes*”  
11th Annual Workshop on Soft-Collinear Effective Theory (SCET2014), March 27th, 2014, Institute for Advanced Study of the Technische Universitat, Munchen, Germany.

115. “*Jet Shapes at the LHC*”  
Boston Jet Physics Workshop, January 22, 2014, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA.
116. “*Jet Shapes at the LHC*”  
High Energy Physics Theory Seminar, January 3rd, 2014, Academia Sinica, Taipei, Taiwan.
117. “*Telescoping Jets: Multiple Event Interpretations with Multiple  $R$ ’s*”  
High Energy Physics Theory Seminar, December 25th, 2013, National Taiwan University, Taipei, Taiwan.
118. “*Telescoping Jets: Multiple Event Interpretations with Multiple  $R$ ’s*”  
T-2 Seminar, August 27th, 2013, Los Alamos National Laboratory, Los Alamos, New Mexico, USA.
119. “*Telescoping Jets: Multiple Event Interpretations with Multiple  $R$ ’s*”  
5th International Workshop on Boosted Object Phenomenology, Reconstruction and Searches (BOOST 2013), August 15, 2013, Flagstaff, Arizona, USA.
120. “*Telescoping Jets: Multiple Event Interpretations with Multiple  $R$ ’s*”  
High Energy Physics Theory Seminar, May 24th, 2013, Academia Sinica, Taipei, Taiwan.
121. “*Jet Physics at High Energy Colliders*”  
PhD thesis defense (public), May 10th, 2013, Harvard University, Cambridge, Massachusetts, USA.
122. “*Telescoping Jets: Multiple Event Interpretations with Multiple  $R$ ’s*”  
High Energy Physics In-house Phenomenology Seminar, March 27th, 2013, Harvard University, Cambridge, Massachusetts, USA.
123. “*Resummation of Jet Mass at Hadron Colliders*”  
T-2 Seminar, December 13th, 2012, Los Alamos National Laboratory (video conference talk), Los Alamos, New Mexico, USA.
124. “*A Probabilistic, non-Recombinational Jet Algorithm*”  
High Energy Physics In-house Phenomenology Seminar, October 15th, 2012, Harvard University, Cambridge, Massachusetts, USA.
125. “*From Neutral Current to Weak Vector Boson*”  
Particle Physics Phenomenology Graduate Student Seminar, June 26th, 2012, Harvard University, Cambridge, Massachusetts, USA.
126. “*Resummation of Jet Mass in Direct Photon Production*”  
High Energy Physics Journal Club, June 4th, 2012, National Taiwan University, Taipei, Taiwan.
127. “*Wilson Lines, AdS, and Conformal Gauge*”  
String Theory Seminar, June 1st, 2012, National Taiwan University, Taipei, Taiwan.
128. “*Resummation of Jet Mass in Direct Photon Production*”  
High Energy Physics Theory Seminar, May 30th, 2012, Academia Sinica, Taipei, Taiwan.
129. “*Resummation of Jet Mass in Direct Photon Production*”  
9th Annual Workshop on Soft-Collinear Effective Theory (SCET2012), March 28th, 2012, Universidad Complutense de Madrid, Madrid, Spain.

130. “*Resummation of Jet Mass in Direct Photon Production*”  
High Energy Physics In-house Phenomenology Seminar, March 7th, 2012, Harvard University, Cambridge, Massachusetts, USA.
131. “*Jet Physics from Static Charges in AdS*”  
High Energy Physics Journal Club, January 9th, 2012, National Taiwan University, Taipei, Taiwan.
132. “*Jet Physics from Static Charges in AdS*”  
High Energy Physics Theory Seminar, January 6th, 2012, Academia Sinica, Taipei, Taiwan.
133. “*Jet Physics from Static Charges in AdS*”  
High Energy Physics In-house Phenomenology Seminar, September 21st, 2011, Harvard University, Cambridge, Massachusetts, USA.
134. “*Cusp Anomalous Dimension in Radial Quantization*”  
High Energy Physics In-house Phenomenology Seminar, April 13th, 2011, Harvard University, Cambridge, Massachusetts, USA.
135. “*Infrared Singularities, Sudakov Logarithms and Gauge Invariance*”  
High Energy Physics In-house Phenomenology Seminar, September 29th, 2010, Harvard University, Cambridge, Massachusetts, USA.
136. “*Determination of  $\alpha_s$  from LEP Heavy Jet Mass Data Using Effective Field Theory*”  
The 37th Taiwanese Student Physics Discussion, August 3rd, 2010, B27 R-015, CERN, Geneva, Switzerland.
137. “*Determination of  $\alpha_s$  from LEP Heavy Jet Mass Data Using Effective Field Theory*”  
High Energy Physics Journal Club, June 28th, 2010, National Taiwan University, Taipei, Taiwan.
138. “*Determination of  $\alpha_s$  from LEP Heavy Jet Mass Data Using Effective Field Theory*”  
High Energy Physics In-house Phenomenology Seminar, March 10th, 2010, Harvard University, Cambridge, Massachusetts, USA.