YANG MA

INFN, Sezione di Bologna

Via Irnerio 46, 40126 Bologna, Italy

✓ yang.ma@bo.infn.it

• https://yangphy.github.io

PROFESSIONAL PREPARATION

Ph.D. in Physics August 2022

University of Pittsburgh, PA, U.S.A. Advisor: Tao Han

M.S. in Physics

June 2016

Chongqing University, Chongqing, China

SKILLS

Programming Language: C/C++, Fortran, Python, Shell script

Handy Programs: Mathematica, Matlab, LATEX, Excel, Powerpoint, Linux (OS)

HEP Packages: MadGraph5_aMC@NLO, Pythia, FeynRules, FeynArts, FeynCalc, FormCalc, WHIZARD,

ManeParse

POSITION HELD

Postdoctoral Researcher September 2022 - present

INFN Bologna, Italy

Graduate Teaching Fellow May 2022 - July 2022

Dept. Physics & Astronomy, University of Pittsburgh

Graduate Research Fellow January 2022 - April 2022

Dept. Physics & Astronomy, University of Pittsburgh

Arts & Sciences Pre-Doctoral Fellow September 2020 - December 2021

Kenneth P. Dietrich School of Arts & Sciences, University of Pittsburgh

Graduate Research Assistant January 2020 - August 2020

Dept. Physics & Astronomy, University of Pittsburgh

Graduate Teaching Assistant August 2016 - January 2020

Dept. Physics & Astronomy, University of Pittsburgh

AWARDS AND HONORS

Outstanding Reviewer Awards 2022 March 2023

Journal of Physics Communications, IOP Publishing

DPF Student Travel Award April 2022

APS Division of Particles and Fields (DPF)

Thomas-Lain Scholarship April 2021

Dept. Physics & Astronomy, University of Pittsburgh

FGSA Award for Excellence in Graduate Research February 2021

American Physical Society (APS)

Arts & Sciences Graduate Fellowship September 2020

Kenneth P. Dietrich School of Arts & Sciences, University of Pittsburgh

Dept. Physics & Astronomy, University of Pittsburgh

MEMBERSHIP IN PROFESSIONAL SOCIETIES

American Physical Society (APS) member March 2021 - present
International Organization of Chinese Physics & Astrophysics member September 2021 - present
American Association for the Advancement of Science (AAAS) member September 2021 - present
International Muon collider collaboration (IMCC) member July 2022 - present

PUBLICATIONS IN REFEREED JOURNALS

- 1. E. Celada, T. Han, W. Kilian, N. Kreher, Y. Ma, F. Maltoni et al., *Probing Higgs-muon interactions at a multi-TeV muon collider*, 2312.13082.
- 2. C. Accettura et al., Towards a muon collider, Eur. Phys. J. C 83 (2023) 864 [2303.08533].
- 3. T. Han, A. K. Leibovich, Y. Ma and X.-Z. Tan, Higgs boson decay to charmonia via c-quark fragmentation, JHEP 08 (2022) 073 [2202.08273].
- 4. T. Han, W. Kilian, N. Kreher, Y. Ma, J. Reuter, T. Striegl et al., *Precision Test of the Muon-Higgs Coupling at a High-energy Muon Collider*, *JHEP* 12 (2021) 162 [2108.05362].
- 5. D. Buarque et al., Vector Boson Scattering Processes: Status and Prospects, Rev. Phys. 8 (2022) 100071 [2106.01393].
- 6. T. Han, Y. Ma and K. Xie, Quark and gluon contents of a lepton at high energies, JHEP 02 (2022) 154 [2103.09844].
- T. Han, Y. Ma and K. Xie, High energy leptonic collisions and electroweak parton distribution functions, Phys. Rev. D 103 (2021) L031301 [2007.14300].
- 8. Z. Sun and Y. Ma, Inclusive productions of $\Upsilon(1S, 2S, 3S)$ and $\chi_b(1P, 2P, 3P)$ via the Higgs boson decay, Phys. Rev. D **100** (2019) 094019 [1909.08548].
- 9. Z. Sun, X.-G. Wu, Y. Ma and S. J. Brodsky, Exclusive production of $J/\psi + \eta_c$ at the B factories Belle and Babar using the principle of maximum conformality, Phys. Rev. D **98** (2018) 094001 [1807.04503].
- 10. Y. Ma and X.-G. Wu, Renormalization scheme dependence of high-order perturbative QCD predictions, Phys. Rev. D 97 (2018) 036024 [1707.09886].
- 11. J.-M. Shen, X.-G. Wu, Y. Ma and S. J. Brodsky, *The Generalized Scheme-Independent Crewther Relation in QCD*, *Phys. Lett. B* **770** (2017) 494 [1611.07249].
- 12. H.-Y. Bi, X.-G. Wu, Y. Ma, H.-H. Ma, S. J. Brodsky and M. Mojaza, Degeneracy Relations in QCD and the Equivalence of Two Systematic All-Orders Methods for Setting the Renormalization Scale, Phys. Lett. B 748 (2015) 13 [1505.04958].
- 13. H.-H. Ma, X.-G. Wu, Y. Ma, S. J. Brodsky and M. Mojaza, Setting the renormalization scale in perturbative QCD: Comparisons of the principle of maximum conformality with the sequential extended Brodsky-Lepage-Mackenzie approach, Phys. Rev. D 91 (2015) 094028 [1504.01260].
- 14. Y. Ma, X.-G. Wu, H.-H. Ma and H.-Y. Han, General Properties on Applying the Principle of Minimum Sensitivity to High-order Perturbative QCD Predictions, Phys. Rev. D 91 (2015) 034006 [1412.8514].

- 15. H.-B. Fu, X.-G. Wu and Y. Ma, $B \to K^*$ Transition Form Factors and the Semi-leptonic Decay $B \to K^* \mu^+ \mu^-$, J. Phys. G 43 (2016) 015002 [1411.6423].
- 16. H.-B. Fu, X.-G. Wu, H.-Y. Han, Y. Ma and H.-Y. Bi, The ρ-meson longitudinal leading-twist distribution amplitude, Phys. Lett. B 738 (2014) 228 [1409.3053].
- 17. G. Chen, X.-G. Wu, Z. Sun, Y. Ma and H.-B. Fu, Photoproduction of doubly heavy baryon at the ILC, JHEP 12 (2014) 018 [1408.4615].
- 18. H.-B. Fu, X.-G. Wu, H.-Y. Han and Y. Ma, $B \to \rho$ transition form factors and the ρ -meson transverse leading-twist distribution amplitude, J. Phys. G 42 (2015) 055002 [1406.3892].
- X.-G. Wu, Y. Ma, S.-Q. Wang, H.-B. Fu, H.-H. Ma, S. J. Brodsky et al., Renormalization Group Invariance and Optimal QCD Renormalization Scale-Setting, Rept. Prog. Phys. 78 (2015) 126201 [1405.3196].
- 20. S.-Q. Wang, X.-G. Wu, J.-M. Shen, H.-Y. Han and Y. Ma, *QCD improved electroweak parameter* ρ, *Phys. Rev. D* **89** (2014) 116001 [1402.0975].
- 21. Z. Sun, X.-G. Wu, G. Chen, Y. Ma, H.-H. Ma and H.-Y. Bi, Bottomonium production associated with a photon at a high luminosity e^+e^- collider with the one-loop QCD correction, Phys. Rev. D 89 (2014) 074035 [1401.2735].
- 22. H.-B. Fu, X.-G. Wu, H.-Y. Han, Y. Ma and T. Zhong, $|V_{cb}|$ from the semileptonic decay $B \to D\ell\bar{\nu}_{\ell}$ and the properties of the D meson distribution amplitude, Nucl. Phys. B 884 (2014) 172 [1309.5723].

OTHER PUBLICATIONS

- 1. J. Reuter, T. Han, W. Kilian, N. Kreher, Y. Ma, T. Striegl et al., *Precision test of the muon-Higgs coupling at a high-energy muon collider*, *PoS* **ICHEP2022** (2022) 1239 [2212.01323].
- 2. T. Han, A. K. Leibovich, Y. Ma and X.-Z. Tan, *Higgs decay to charmonia and the charm-quark Yukawa coupling*, *PoS* **ICHEP2022** (2022) 517 [2211.10727].
- 3. K. M. Black et al., Muon Collider Forum Report, 2209.01318.
- 4. T. Han, Y. Ma and K. Xie, Electroweak fragmentation at high energies: A Snowmass White Paper, in 2022 Snowmass Summer Study, 3, 2022, 2203.11129.
- 5. J. M. Campbell et al., Event Generators for High-Energy Physics Experiments, in 2022 Snowmass Summer Study, 3, 2022, 2203.11110.
- 6. I. Adachi et al., The International Linear Collider: Report to Snowmass 2021, in 2022 Snowmass Summer Study, 3, 2022, 2203.07622.
- 7. J. De Blas et al., The physics case of a 3 TeV muon collider stage, in 2022 Snowmass Summer Study, 3, 2022, 2203.07261.
- 8. C. Aimè et al., Muon Collider Physics Summary, in 2022 Snowmass Summer Study, 3, 2022, 2203.07256.

SEMINARS AND COLLOQUIUM

1. Physics opportunities and challenges at future multi-TeV lepton colliders December 2023 HEP Seminar, Nankai University

2. Physics opportunities and challenges at future multi-TeV lepton colliders December 2023 HEP Seminar, Chongqing University

		D 1 2022
3.	Physics opportunities and challenges at future multi-TeV lepton colliders HEP Seminar, Shandong University	December 2023
4.	Physics opportunities and challenges at future multi-TeV lepton colliders HEP Seminar, University of Science and Technology of China (USTC)	December 2023
5.	Physics opportunities and challenges at future multi-TeV lepton colliders HEP Seminar, Nanjing Normal University	December 2023
6.	Physics opportunities and challenges at future multi-TeV lepton colliders HEP Seminar, Southeast University	December 2023
7.	Physics opportunities and challenges at future multi-TeV lepton colliders HEP Seminar, Fudan University	December 2023
8.	Physics opportunities and challenges at future multi-TeV lepton colliders HEP Seminar, Nanjing University	December 2023
9.	Physics opportunities and challenges at future multi-TeV lepton colliders HEP Seminar, Tsung-Dao Lee Institute (TDLI), Shanghai Jiao Tong University	December 2023
10.	Physics opportunities and challenges at future multi-TeV lepton colliders HEP Seminar, Tsinghua University	November 2023
11.	Physics opportunities and challenges at future multi-TeV lepton colliders HEP Seminar, Peking University	November 2023
12.	Physics opportunities and challenges at future multi-TeV lepton colliders HEP Seminar, Institute of Theoretical Physics, Chinese Academy of Sciences	November 2023
13.	Physics opportunities and challenges at future multi-TeV lepton colliders HEP Theory Seminar, IHEP, Chinese Academy of Sciences	November 2023
14.	Bread and butter physics at future multi-TeV lepton colliders NHETC Theory Seminar, Rutgers University	May 2023
15.	Measuring the Yukawa couplings: Towards the 2nd generation fermions HEP Lunch Seminar, University of Chicago	May 2023
16.	Electroweak Tevatron: High-Energy lepton colliders Theoretical Physics Seminar, Fermilab	May 2023
17.	Bread and butter physics at future multi-TeV lepton colliders LEPP Theory Seminar, Cornell University	May 2023
18.	Measuring the Yukawa couplings: Towards the 2nd generation fermions HEP Theory Seminar, University at Buffalo	May 2023
19.	Determine the Yukawa couplings of the second generation fermions at high-energy colliders (Remote) HEP Theory Seminar, Argonne National Laboratory (ANL)	January 2023
20.	Determine the Yukawa couplings of the second generation fermions at high-energy colliders (Remote) TDLI/INPAC Joint Theory Seminar, Shanghai Jiao Tong University	December 2022
21.	Determine the Yukawa couplings of the second generation fermions at high-energy colliders (Remote) Particle Physics Seminar, Chongqing University	December 2022

22.	Determine the Yukawa couplings of the second generation fermions at high-energy colliders (Remote) Theoretical Physics Seminar, Shandong University	December 2022
23.	Phenomenology at high-energy colliders Bologna HEP Theory Journal Club, INFN Bologna & University of Bologna	November 2022
24.	The partonic picture and the SM expectation of high-energy lepton colliders HEP Seminar, University of Notre Dame	September 2022
25.	The partonic picture and the SM expectation of high-energy lepton colliders HEP Seminar, University of Wisconsin-Madison	September 2022
26.	The partonic picture and the SM expectation of high-energy lepton colliders HEP Special Seminar, University of Michigan	September 2022
27.	The partonic picture and the SM expectation of high-energy lepton colliders HEP Seminar, Northwestern University	September 2022
28.	Higgs decay to charmonia and the charm-quark Yukawa coupling HEP Seminar, Michigan State University	September 2022
29.	Higgs decay to charmonia and the charm-quark Yukawa coupling HEP Seminar, Washington University in St. Louis	September 2022
30.	The partonic picture and the SM expectation of high-energy lepton colliders HEP Seminar, University of Minnesota	August 2022
31.	Higgs decay to J/ψ via c-quark fragmentation (Remote) Nuclear Physics Seminar, UCLA	May 2022
32.	Higgs decay to charmonia and the charm quark Yukawa PITT PACC Group Seminar, University of Pittsburgh	March 2022
33.	Multi-boson production and the muon Yukawa coupling (Remote) HEP Journal Club, University of Utah	October 2021
34.	Multi-boson production and the muon Yukawa coupling PITT PACC Group Seminar, University of Pittsburgh	September 2021
35.	Parton contents of a lepton at high energies (Remote) Particle Theory Seminar, Carleton University	May 2021
36.	The partonic picture at high-energy lepton colliders (Remote) SLAC EPP Theory Seminar, SLAC	April 2021
37.	The partonic picture at high-energy lepton colliders (Remote) Particle Theory Seminar, Shandong University	April 2021
38.	Parton contents of a lepton at high energies (Remote) HEP Seminar, Oklahoma State University	April 2021
39.	QCD jet production at high energy lepton colliders (Remote) PITT PACC Group Seminar, University of Pittsburgh	March 2021
40.	High energy lepton collisions and electroweak PDFs (Remote) Particle Theory Seminar, Carleton University	October 2020
41.	High energy lepton collisions and electroweak PDFs (Remote) PITT PACC Group Seminar, University of Pittsburgh	September 2020

42.	How much do we need polarized PDFs? PITT PACC Group Seminar, University of Pittsburgh	October 2019
43.	Renormalization scheme uncertainties in high order perturbative QCD results PITT PACC Group Seminar, University of Pittsburgh	March 2019
CONF	ERENCE AND WORKSHOP TALKS	
1.	Probing Higgs-Muon Interactions at Multi-TeV Collider Parallel talk at IMCC and MuCol Annual Meeting 2024, CERN	March 2024
2.	Multiple boson production at high-energy muon colliders to probe the Higgs-muon coupling Parallel talk at Higgs 2023, IHEP, Beijing	November 2023
3.	Higgs decay to quarkonia and the Yukawa couplings Parallel talk at Higgs 2023, IHEP, Beijing	November 2023
4.	${\it Muon~colliders~and~Weak~PDFs} \\ {\it MadGraph5_aMC@NLO~meeting~2023,~Gargnano,~Lake~Garda,~Italy}$	September 2023
5.	Muon Yukawa couplings at the high-energy muon collider Parallel talk at Pheno 2023, University of Pittsburgh	May 2023
6.	Electroweak LHC: High-energy lepton colliders Invited talk at PIKIMO Spring 2023, Ohio State University	April 2023
7.	EW and QCD physics at the muon collider Parallel talk at Milan Christmas Meeting 2022, Milan, Italy	December 2022
8.	Higgs decay to charmonia and the charm-quark Yukawa coupling Parallel talk at the Higgs 2022 Conference, Pisa, Italy	November 2022
9.	EW and QCD physics at the muon collider Parallel talk at Muon Collider Collaboration Meeting 2022, CERN	October 2022
10.	Higgs decay to charmonia via c-quark fragmentation Invited plenary talk at QWG 2022, GSI Darmstadt, Germany	September 2022
11.	Higgs decay to charmonia and the charm-quark Yukawa coupling (Remote) Invited talk at the SYSU-PKU Collider Physics forum For Young S	September 2022 Scientists
12.	Higgs decay to J/ψ via c-quark fragmentation (Remote) Parallel talk at ICHEP 2022, Bologna, Italy	July 2022
13.	Higgs decay to J/ψ via c-quark fragmentation Parallel talk at Pheno 2022, University of Pittsburgh	May 2022
14.	Multi-boson production and the muon Yukawa coupling Contributed talk at APS April Meeting 2022, New York	April 2022
15.	Multi-boson production and the muon Yukawa coupling PIKIMO 11, University of Pittsburgh	December 2021
16.	Electroweak parton distributions and fragmentations for high-energy lepton colliders (Remote) Snowmass EF04 Topical Group Community Meeting	October 2021
17.	Higgs boson decay to J/ψ via c-quark fragmentation (Remote) Parallel talk at Higgs 2021 Conference, Stony Brook University	October 2021

18.	The partonic picture at high-energy lepton colliders (Remote) Parallel talk at SUSY 2021, Shanghai	August 2021			
19.	QCD jet production at a high energy muon collider (Remote) Parallel talk at EPS-HEP 2021, DESY	July 2021			
20.	Quark and gluon contents of a lepton at high energies (Remote) Parallel talk at the DPF meeting, Florida State University	July 2021			
21.	Quark and gluon contents of a lepton at high energies (Remote) Parallel talk at Pheno 2021, University of Pittsburgh	May 2021			
22.	The partonic picture at high-energy lepton colliders (Remote) Parallel talk at PPC 2021, University of Oklahoma	May 2021			
23.	Electroweak parton distribution functions at a high-energy muon collider (Remote) Contributed talk at APS April Meeting 2021	April 2021			
24.	QCD jet production at a high energy muon collider (Remote) Talk at Muon Collider Physics and Simulation Meeting, CERN	March 2021			
25.	The electroweak parton distribution functions - Necessity and application (Remote) Student talk at Theoretical Advanced Study Institute (TASI 2020)	June 2020			
26.	The electroweak parton distribution functions (Remote) Parallel talk at Pheno 2020, University of Pittsburgh	May 2020			
27.	QCD Scale-setting problem in Future Chinese Collider physics Parallel talk at CEPC-SppC Study Group Meeting, IHEP, Beijing	September 2015			
CONFERENCES AND WORKSHOPS ATTENDED					
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	IMCC and MuCol Annual Meeting 2024, CERN	March 2024			
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17.	PIKIMO 11, University of Pittsburgh (hybrid)	December 2021
18.	Higgs 2021 Stony Brook University & Brookhaven National Laboratory (remote)	October 2021
19.	The XXVIII International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2021), Shanghai (remote)	August 2021
20.	European Physical Society Conference on High Energy Physics 2021 (EPS-HDESY (remote)	EP 2021) July 2021
21.	2021 Meeting of the Division of Particles and Fields of the APS (DPF21) Florida State University (remote)	July 2021
22.	Phenomenology Symposium 2021 (Pheno 2021), University of Pittsburgh	May 2021 (remote)
23.	XIV International Workshop on Interconnections between Particle Physics and Cosmology (PPC 2021), University of Oklahoma (remote)	May 2021
24.	APS April Meeting 2021 (remote)	April 2021
25.	Muon Collider Physics and Simulation Meeting (remote)	March 2021
26.	PITT PACC Workshop: Muon collider physics University of Pittsburgh (remote)	November 2020
27.	Phenomenology Symposium 2020 (Pheno 2020) University of Pittsburgh (remote)	May 2020
28.	Phenomenology Symposium 2020 (Pheno 2019), University of Pittsburgh	May 2019
29.	PITT PACC Workshop: BSM circa 2020, University of Pittsburgh	March 2019
30.	Phenomenology Symposium 2020 (Pheno 2018), University of Pittsburgh	May 2018
31.	Phenomenology Symposium 2020 (Pheno 2017), University of Pittsburgh	May 2017
32.	The CEPC-SppC Study Group Meeting Institute of High Energy Physics (IHEP), Beijing	September 2015
SUMM	MER SCHOOLS ATTENDED	
1.	CTEQ 2022, University of Pittsburgh CTEQ School on QCD and Electroweak Phenomenology	July 2022
2.	SSI 2021, SLAC 49th SLAC SUMMER INSTITUTE: The Higgs State Fair	August 2021
3.	HCPSS 2020, Fermilab 15th annual Fermilab-CERN Hadron Collider Physics Summer School	August 2020
4.	TASI 2020, University of Colorado Boulder The Obscure Universe: Neutrinos and Other Dark Matters	June 2020
5.	CTEQ 2019, University of Pittsburgh CTEQ School on QCD and Electroweak Phenomenology	July 2019
6.	CTEQ 2017, University of Pittsburgh CTEQ School on QCD and Electroweak Phenomenology	July 2017

REFEREE SERVICE

- Physical Review D (Phys. Rev. D) ×1
- Chinese Physics C (CPC) ×1
- The European Physical Journal C (Eur. Phys. J. C) $\times 1$
- Journal of Physics Communications (J. Phys. Commun.) ×1
- Journal of Physics G: Nuclear and Particle Physics (J. Phys. G) ×1
- Nuclear Physics B (Nucl. Phys. B) $\times 1$
- Machine Learning: Science and Technology (MLST) ×1

TEACHING EXPERIENCE

Graduate Teaching Fellow (instructor) at the University of Pittsburgh

• PHYS 0174 - Basic Physics, Science and Engineering 1, Summer 2022 Covers Mechanics and Wave

Graduate Teaching Assistant at the University of Pittsburgh

- PHYS 0219 Basic Laboratory Physics for Science and Engineering Fall 2016, Spring 2017, and Fall 2018
- PHYS 0212 Introduction to Laboratory Physics Fall 2017, Spring 2018, and Summer 2018
- PHYS 0110 Introduction to Physics 1, Summer 2018 Covers Mechanics, Heat and Thermodynamics, and Waves
- PHYS 0111 Introduction to Physics 2, Summer 2017 Covers Thermodynamics, Electromagnetism, Optics, Special Relativity, and Quantum Physics
- PHYS 0175 Basic Physics, Science and Engineering 2, Spring 2019 and Summer 2021 Covers Electromagnetism, Elementary Quantum Mechanics, and Atomic Structure

Graduate Teaching Assistant at Chongqing University

- College Physics I Classical Mechanics and Electromagnetism, Spring 2014
- College Physics II Thermodynamics, Optics and Special Relativity, Fall 2013

MENTORING EXPERIENCE

• Dept. Physics & Astronomy Graduate Student Mentor Mentor three first year graduate students August 2021 - May 2022

• Assist to guide one visiting graduate student (Xiaoze Tan) (JHEP 08 (2022) 073 [2202.08273])

December 2019 - December 2020

• Assist to guide one visiting undergraduate student

June 2019 - August 2019