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WORK CONTACTS	Institution: City St. George's, University of London Address: Northampton Square, London, EC1V 0HB, UK E-mail: andrea.guerrieri@city.ac.uk ORCID: 0000-0003-3370-3135	
RESEARCH INTERESTS	My research focuses on non-perturbative properties of scattering amplitudes in QFT and Quantum Gravity Theories. I am interested in using Bootstrap-inspired numerical methods, and optimization theory to explore the space of Strings and QFTs. During my career I have also been interested in Lattice QCD, hadron spectroscopy, perturbative scattering amplitudes, and conformal field theories.	
EMPLOYMENTS	Lecturer and Royal Society University Research Fellow, City St. George's, University of London	2025 – present
	Postdoctoral Fellow, CERN	6/2024 – 12/2024
	Postdoctoral Fellow, Perimeter Institute for theoretical physics , Waterloo, CA	2022 – 2024
	Associate Postdoc, University of Padova , Padova, IT	2022 – 2024
	Associate member, INFN sez. Padova	2022 – 2024
	Postdoctoral Researcher, Tel-Aviv University , Tel-Aviv, IL	2020 – 2022
	Postdoctoral Researcher, ICTP-SAIFR and IFT-UNESP , São Paulo, BR	2017 – 2020
	Associate member, Simons Collaboration on the Non-perturbative Bootstrap	2017 – 2020
	Postdoctoral researcher, Chulalongkorn University , Bangkok, TH	2016 – 2017
	Associate member, INFN sez. Roma 2	2014 – 2017
	Associate member, INFN sez. Roma 1	2013 – 2014
EDUCATION	PhD in Physics, Università di Roma Tor Vergata , Rome, IT Thesis: <i>Soft theorems: from strings to conformal quantum fields</i> Advisor: Massimo Bianchi	2013 – 2016
	MSc in Physics, Sapienza Università di Roma , Rome, IT Thesis: <i>Computation of the static quark-antiquark potential on the lattice</i> Supervisor: Massimo Testa mark 110/110 cum laude	2011 – 2013
	BSc in Physics, Sapienza Università di Roma , Rome, IT Thesis: <i>Non-abelian anyons and topological quantum computation</i> Supervisor: Antonio Polosa mark 110/110 cum laude	2008 – 2011
	BA in Classical Guitar, Conservatorio U. Giordano, Foggia, IT	2001 – 2011
GRANTS & HONORS	“S-matrix Bootstrap: a theoretical collider for particle physics” Royal Society University Research Fellowship	2024 – 2032
	“Climbing up the flow: Numerical Bootstrap for EFTs (CluEs)” MSCA Seal of Excellence@UNIPD 2022	2022 – 2025
	Abilitazione Scientifica Nazionale – Professore di II fascia, FIS 02/A2 Habilitation to be Associate Professor of Theoretical Physics in Italy	2020 – 2030
	“Novel approaches to strongly coupled field theories” SPRINT 3/2017 Grant Fapesp	2018
	Short Term Scientific Missions Grant COST Action, MP1210 The String Theory Universe	2016

TRAINING

Media Training Workshop City St George’s Journalism department	2 May 2025
Royal Society Leadership Effectiveness March 2025 Imperial College Business School, Executive Education	19–21 Mar. 2025

PUBLICATIONS

- ¹ “Multiparticle Flux-Tube S-matrix Bootstrap,” A. Guerrieri, A. Homrich and P. Vieira, Phys. Rev. Lett. **134**, no.4, 041601 (2025) arXiv:2404.10812 [hep-th]
- “Constraining Glueball Couplings,” A. L. Guerrieri, A. Hebbar and B. C. van Rees, Phys. Rev. D **112**, 094023 (2025) arXiv:2312.00127 [hep-th]
- “Extremal Higgs couplings,” J. Elias Miro, A. L. Guerrieri and M. A. Gumus, Phys. Rev. D **110**, no.1, 016007 (2024) arXiv:2311.09283 [hep-ph]
- “Bounds on scattering of neutral Goldstones,” F. Acanfora, A. Guerrieri, K. Häring and D. Karateev, JHEP **03**, 028 (2024), arXiv:2310.06027 [hep-th]
- “QCD worldsheet axion from the bootstrap”, A. Gaikwad, V. Gorbenko and A. L. Guerrieri, JHEP **01**, 090 (2024), arXiv:2310.20698 [hep-th]
- “Where is M-theory in the space of scattering amplitudes?,” A. Guerrieri, H. Murali, J. Penedones and P. Vieira, JHEP **06**, 064, (2023), arXiv:2212.00151 [hep-th]
- “Bridging Positivity and S-matrix Bootstrap Bounds”, J. E. Miró, A. L. Guerrieri M. A. Gumus, JHEP **05**, 001, (2023), arXiv:2210.01502 [hep-th]
- “Rigorous bounds on the Analytic S-matrix”, A. Guerrieri and A. Sever, Phys. Rev. Lett. **127**, no.25, 251601 (2021), arXiv:2106.10257 [hep-th]
- “Dual EFT bootstrap: QCD flux tubes,” J. E. Miró and A. Guerrieri, JHEP **10**, 126 (2021), arXiv:2106.07957 [hep-th]
- “Where Is String Theory in the Space of Scattering Amplitudes?”, A. L. Guerrieri, J. Penedones and P. Vieira, Phys. Rev. Lett. **127** (2021) no.8, 081601, **Editor’s Suggestion**, arXiv:2102.02847 [hep-th]
- “S-matrix bootstrap for effective field theories: massless pions,” A. L. Guerrieri, J. Penedones and P. Vieira, JHEP **06**, 088 (2021), arXiv:2011.02802 [hep-th]
- “Dual S-matrix Bootstrap I: 2D Theory”, A. L. Guerrieri, A. Homrich and P. Vieira, JHEP **11** (2020), 084, arXiv:2008.02770 [hep-th]
- “Flux Tube S-matrix Bootstrap,” J. Elias Miro, A. L. Guerrieri, A. Hebbar, J. Penedones and P. Vieira, Phys. Rev. Lett. **123**, no. 22, 221602 (2019), arXiv:1906.08098 [hep-th]
- “Bootstrapping QCD Using Pion Scattering Amplitudes,” A. L. Guerrieri, J. Penedones and P. Vieira, Phys. Rev. Lett. **122**, no. 24, 241604 (2019), arXiv:1810.12849 [hep-th]
- “On the exactness of soft theorems,” A. L. Guerrieri, Y. t. Huang, Z. Li and C. Wen, JHEP **1712**, 052 (2017), arXiv:1705.10078 [hep-th]
- “The analytic structure of conformal blocks and the generalized Wilson-Fisher fixed points,” F. Gliozzi, A. L. Guerrieri, A. C. Petkou and C. Wen, JHEP **1704**, 056 (2017), arXiv:1702.03938 [hep-th]
- “Generalized Wilson-Fisher Critical Points from the Conformal Operator Product Expansion,” F. Gliozzi, A. Guerrieri, A. C. Petkou and C. Wen, Phys. Rev. Lett. **118**, no. 6, 061601 (2017), arXiv:1611.10344 [hep-th]
- “Exploring soft constraints on effective actions,” M. Bianchi, A. L. Guerrieri, Y. t. Huang, C. J. Lee and C. Wen, JHEP **1610**, 036 (2016), arXiv:1605.08697 [hep-th]
- “The free σ CFTs,” A. Guerrieri, A. C. Petkou and C. Wen, JHEP **1609**, 019 (2016), arXiv:1604.07310 [hep-th]
- “On the soft limit of closed string amplitudes with massive states,” M. Bianchi and A. L. Guerrieri, Nucl. Phys. B **905**, 188 (2016), arXiv:1512.00803 [hep-th]

¹The authors always appear in alphabetic order.

- “Observation of light nuclei at ALICE and the X(3872) conundrum,” A. Esposito, A. L. Guerrieri, L. Maiani, F. Piccinini, A. Pilloni, A. D. Polosa and V. Riquer, Phys. Rev. D **92**, no. 3, 034028 (2015), arXiv:1508.00295 [hep-ph]

“Color structure of Yang-Mills theory with static sources in a periodic box,” L. Giusti, A. L. Guerrieri, S. Petrarca, A. Rubeo and M. Testa, Phys. Rev. D **92**, no. 3, 034515 (2015), arXiv:1508.00152 [hep-lat]

“On the soft limit of open string disk amplitudes with massive states,” M. Bianchi and A. L. Guerrieri, JHEP **1509**, 164 (2015), arXiv:1505.05854 [hep-th]

“Note on the newly observed $Y(4220)$ resonance,” R. Faccini, G. Filaci, A. L. Guerrieri, A. Pilloni and A. D. Polosa, Phys. Rev. D **91**, no. 11, 117501 (2015), arXiv:1412.7196 [hep-ph]

“Four-Quark Hadrons: an Updated Review,” A. Esposito, A. L. Guerrieri, F. Piccinini, A. Pilloni and A. D. Polosa, Int. J. Mod. Phys. A **30**, 1530002 (2015), arXiv:1411.5997 [hep-ph]

“Probing the nature of $Z_c^{(\prime)}$ states via the $\eta_c \rho$ decay,” A. Esposito, A. L. Guerrieri and A. Pilloni, Phys. Lett. B **746**, 194 (2015), arXiv:1409.3551 [hep-ph]

“Production of Tetraquarks at the LHC,” A. L. Guerrieri, F. Piccinini, A. Pilloni and A. D. Polosa, Phys. Rev. D **90**, no. 3, 034003 (2014), arXiv:1405.7929 [hep-ph]

ARXIV &
PREPRINTS

- “Universality of Heavy Operators in Matrix Models,” A. Guerrieri, H. Murali and P. Vieira, arXiv:2507.21207 [hep-th]

“Cross-Section Bootstrap: Unveiling the Froissart Amplitude,” M. Correia, A. Georgoudis and A. L. Guerrieri, arXiv:2506.04313 [hep-th]

“From data to the analytic S-matrix: A Bootstrap fit of the pion scattering amplitude,” A. Guerrieri, K. Häring and N. Su, arXiv:2410.23333 [hep-th]

CONFERENCE PROCEEDINGS

- “On the soft limit of tree-level string amplitudes,” M. Bianchi and A. L. Guerrieri, *The Fourteenth Marcel Grossmann Meeting*, pp. 4157-4163 (2017), arXiv:1601.03457 [hep-th]

“The $Z_c^{(\prime)} \rightarrow \eta_c \rho$ decay as a discriminant between tetraquarks and meson molecules,” A. Esposito, A. L. Guerrieri and A. Pilloni, *Proceedings, 7th International Workshop on Charm Physics, CHARM 2015*, arXiv:1508.07058 [hep-ph]

“Soft behavior of string amplitudes with external massive states,” A. L. Guerrieri, *Nuovo Cim. C* **39**, no. 1, 221 (2016), *Proceedings, 24th Conference on High Energy Physics (IFAE 2015)*, arXiv:1507.08829 [hep-th]

“Flavored tetraquark spectroscopy,” A. L. Guerrieri, M. Papinutto, A. Pilloni, A. D. Polosa and N. Tantalo, *PoS LATTICE 2014*, 106 (2015), arXiv:1411.2247 [hep-lat]

“ $q\bar{q}$ -potential: a numerical study,” A. L. Guerrieri, S. Petrarca, A. Rubeo and M. Testa, *PoS LATTICE 2013*, 470 (2014), arXiv:1311.1325 [hep-lat]

ORGANIZATION OF CONFERENCES AND SEMINARS

Organizer

Bootstrap 2026, London	August 2026
Aspen Summer Program 2026, From First Principles to Future Colliders: Amplitudes, Bootstraps and Energy Correlators	July 2026
Bootstrap 2025, São Paulo, BR	21 July – 8 Aug. 2025
S-matrix Bootstrap 2024, Reykjavík, IS	24 – 28 June 2024
Workshop on S-matrix Bootstrap V, Le Diablerets, CH	20 – 25 Aug. 2023
Workshop on S-matrix Bootstrap IV, Crete, GR	18 – 22 Apr. 2022
Workshop on S-matrix Bootstrap III, ICTP-SAIFR, São Paulo, BR	9 – 13 Sep. 2019

External Advisor for Amplitudes After Party in Taiwan, Taipei 23 – 27 Jun. 2025
Organizer of the High Energy Theory Seminars at Tel-Aviv University, Nov. 2020 – Aug. 2022
Organizer of the joint ICTP Trieste-Sao Paulo Journal Club. Mar. – Jul. 2020

OUTREACH ACTIVITY	Interview for <i>Quanta Magazine</i> with Nathalie Wolchover “In a Numerical Coincidence, Some See Evidence for String Theory”	Jan. 2022
	Research featured on <i>phys.org</i> “Researchers use the S-matrix bootstrap to examine whether string theory is the only consistent theory of quantum gravity”	9 Sep. 2021
	YouTube interview for the Meet Science channel “The Bootstrap in theoretical physics” – link video	Dec. 2022
REFeree ACTIVITY	Referee for JHEP, SciPost, PLB, PRL, and PRD.	
TEACHING ACTIVITY	Lecturer at International Schools “The S-matrix Bootstrap and Applications to QCD”, TASI 2026	Jun. 2026
	“Exploring the IR and UV Regimes of QCD”, LonTI: London Theory Institute	17 Feb.–17 Mar. 2025
	“S-matrix Bootstrap”, Avogadro meeting 2021	Dec. 2021
	“Numerical S-matrix Bootstrap”, Bootstrap school 2021	5–23 Jul. 2021
	Undergraduate teaching activity “AS2052, Calculus and Linear Algebra” Bayes Business School, City St George’s U. of London	Sep. – Dec. 2025
PHD STUDENTS	Sebastiano Bocchia, PhD at City St George’s, University of London	2025
OTHER STUDENTS MENTORED	Mehmet Gumus, PhD student at SISSA Trieste	2022–2023
	Harish Murali, PhD student at Perimeter Institute, ON-CA	2022–2023
	Siddhartha Morales-Guzman, then PSI student at Perimeter Institute, ON-CA	2020
	Alexandre Homrich, then PhD student at Perimeter Institute, ON-CA	2019
	Rongvoram Ninesvivat, then PhD student at IPhT, Paris, FR	2017
CONFERENCE TALKS	Gianluca Filaci, then PhD student at Edinburgh University, UK	2015
	Invited Talk: “Maximizing the Interaction Strength” – video Bootstrap 2025, Instituto Principia, Sao Paulo (BR)	4 Aug. 2025
	Overview Talk: “The S-Matrix Bootstrap: Tools and Applications” Amplitudes After Party in Taiwan, National Taiwan University	24 Jun. 2025
	Invited Talk: “Maximizing the Interaction Strength” – slides Amplitudes 2025, Seoul National University	16 Jun. 2025
	Invited Talk: “The tale of the missing Tetraquark: S-matrix Bootstrap meets the real world”, U. of Edinburgh	10 Jun. 2025
	Discussion on ”Non-perturbative Bootstrap of gravitational amplitudes” Bootstrap, Holography & Swampland: Imprint of UV principles on IR physics, Aspen Center for Physics	31 May 20205
	Invited Talk: “The missing tetraquark: the S-matrix Bootstrap meets the real world” – video Bootstrapping Amplitudes from Weak to Strong Coupling, CERN	20 May. 2025
	Invited Talk: “From data to the analytic S-matrix: a Bootstrap fit of pion amplitudes” South East Mathematical Physics Seminar (SEMPs), Hertfordshire University	16 Apr. 2025
	“Bounds on the total cross-section reloaded” – slides Non-perturbative methods in QFT, Kyushu IAS, Fukuoka, JP	10 Mar. 2025
	Invited Talk: “Quantum Gravity S-matrix Bootstrap” – slides Amplitude Methods for Gravity and Cosmology II, KIAS, Seoul, KR	2 August 2024
	Discussion on “Bootstrap, lattice, and dispersion relations”	

S-matrix Bootstrap 2024, University of Iceland, Reykjavik, IS	25 June 2024
Invited Talk: “Bootstrapping Strings” – slides Strings 2024, CERN	6 June 2024
Invited Talk: “Bounds on QCD observables: hadronic strings, glueball scattering, and meson spectrum”, Luso-Brazilian Meeting in theoretical and mathematical physics Universidade Federal de Pernambuco, Recife, BR	1 Mar. 2024
Invited Talk: “Bounds on QCD observables: hadronic strings, glueball scattering, and meson spectrum” – slides 50+ ϵ Years of Conformal Bootstrap, Pisa, IT	21 Feb. 2024
Invited Talk: “A Bootstrap bridge between Gravity and QCD” – slides Iberian Strings 2024, Porto, PT	18 Jan. 2024
Review Talk: “A Bootstrap bridge between Gravity and QCD” – video link QCD meets Gravity, CERN	16 Dec. 2023
Invited Talk: “S-matrix Bootstrap: state of the art and beyond” Workshop on S-matrix Bootstrap V, Les Diablerets	21 Aug. 2023
Invited Talk: “Bootstrapping QCD” – slides Accessing and Understanding the QCD Spectra, UW, Seattle	21 Mar. 2023
Invited Talk: “S-matrix Bootstrap for Effective Field Theories” – video link, Bootstrap 2022, Porto, PT	13 Jul. 2022
Invited Talk: “Is it String Theory?” S-matrix Bootstrap IV, Crete, GR	19 Apr. 2022
Invited Talk: “Review of fluxtube S-matrix bootstrap” –video link KITP Program: Confinement, Flux Tubes, and Large N	14 Jan. 2022
Invited Talk: “S-matrix Bootstrap for Effective Field Theories” Hadron 2021, Mexico City (online conference)	29 Jul. 2021
Invited Talk: “Rigorous bounds on the analytic S-matrix” Positivity and the Bootstrap, CERN (online conference)	2 Jun. 2021
“Where is String Theory?” Israel Physical Society 2021, Weizmann Institute (online conference)	22 Feb. 2021
Invited Talk: “Flux Tube S-matrix Bootstrap” Large N theories and strings, PCTS, Princeton, NJ–US	19 Feb. 2020
Invited Talk: “Bootstrapping Flux-Tubes” – video link Workshop on S-matrix Bootstrap, ICTP-SAIFR/IFT-UNESP, São Paulo, BR	11 Sep. 2019
Invited Talk: “Flux Tube S-matrix Bootstrap” – video link Bootstrap 2019, Perimeter Institute, Waterloo, ON–CA	19 Jul. 2019
Invited Talk: “Bootstrapping the QCD Flux-Tube” Nonperturbative methods for conformal theories, IIP, Natal, BR	4 Apr. 2019
Invited Talk: “The pion lake” Bootstrap 2018, Caltech, Pasadena, US	16 Jul. 2018
Invited Talk: “Bounding the space of S-matrices: Rebooting the Bootstrap” – slides Joint Rome Seminar, Dip. di Fisica, La Sapienza, Rome, IT	21 Dec. 2017
Invited Talk: “Constraining effective actions via scattering amplitudes” – slides XII-th Quark Confinement and Hadron Spectrum, Thessaloniki, GR	2 Sep. 2016
Invited Talk: “Soft behaviour of string amplitudes with massive insertions” Mathematics and Physics at the Crossroads, INFN Frascati, IT	15 Jun. 2016
“On the soft limit of string amplitudes” Fourteenth Marcel Grossmann Meeting, Rome, IT	17 Jul. 2015
“Production of tetraquarks at LHC” – slides Incontro sulla fisica con ioni pesanti a LHC, Bologna, IT	27 May 2015
“Tetraquark spectroscopy at Belle II” 2nd Belle II Theory Interface Platform (B2TiP), Krakow, PL	27 Apr. 2015

SEMINARS

“Huge operators in the Hoppe Model, sometimes, have no hair” DAMTP, Cambridge	4 Dec 2025
“Quantum Gravity S-matrix Bootstrap” Quantum Gravity seminar, NBI, Copenhagen	26 Nov 2025
“Eliminating the impossible to find the truth” Colloquium, Humboldt University	21 Nov., 2025
“A geometric view on crossing symmetric dispersion relations” Mathematical Physics Seminar at the University of York, UK	29 Oct. 2025
“A fresh look at the Froissart bound” Southampton High-Energy Physics group seminar, UK Queen Mary University, London, UK	24 Oct. 2025 9 Oct. 2025
“Maximizing the interaction strength” DESY Research Center, Hamburgh, DE	16 Jul. 2025
“From data to the analytic S-matrix: a Bootstrap fit of pion amplitudes” Yau center at Southeast University, (online talk), Beijing Institute for Theoretical Physics, Bern University, CH Genova University, Genoa, IT Yukawa Institute, Kyoto, JP University of Amsterdam, Amsterdam, NL Torino University, Turin, IT Imperial College, London UK CERN, CH Queen Mary, London, UK	10 Oct. 2025 9 May 2025 23 Apr. 2025 6 Mar. 2025 25 Feb. 2025 4 Feb. 2025 1 Feb. 2025 20 Dec. 2024 24 Oct. 2024
“Bootstrapping Strings” King’s College, London, UK	23 Oct. 2024
“Bootstrapping non-perturbative gravity amplitudes” ETH, Zurich, CH	2 Oct. 20204
“Bounds on QCD observables: Hadronic Strings, Glueball Scattering, and Meson Spectrum” IFIC, Valencia, ES	19 July 2024
“Bootstrapping Real QCD” Perimeter Institute, Waterloo, CA	8 Feb. 2024
“A Bootstrap bridge between Gravity and QCD” Columbia University, New York, US Rencontres theoriciennes, LPTHE Library, Paris, FR	1 Feb. 2024 25 Jan. 2024
“Systematic EFT Bootstrap” IPhT, Saclay, FR	23 Jan. 2024
“Bootstrapping Fundamental and Effective Strings” ShanghaiTech, Shanghai, China	20 Dec. 2023
“Flux Tube S matrix” Confinement and QCD Strings Collaboration Zoom seminar	8 Mar. 2023
“Where is M theory?” Perimeter Institute, CA IPhT, Saclay, FR Ecole Polytechnique, Paris, FR	14 Mar. 2023 12 Jan. 2023 11 Jan. 2023
“Quantum Gravity S-matrix Bootstrap” Tor Vergata University, IT University of Geneve, CH	21 Nov. 2022 10 Nov. 2022
“Bridging positivity with the the S-matrix Bootstrap bounds” EPFL, Lausanne, CH Porto University, PT	7 Nov. 2022, 26 Oct. 2022

CONFERENCE POSTERS	“Where is M Theory?”, ICTP-Trieste, IT	11 Oct. 2022
	“Bridging Positivity and S-matrix Bootstrap Bounds”, Tel Aviv University, IL	22 Sep. 2022
	“S-matrix Bootstrap for Effective Field Theories”, Pisa University, IT	23 Jun. 2022
	Durham University, UK	11 May 2022
	“Quantum gravity S-matrix Bootstrap”, Durham University, Durham, UK	9 Mar. 2022
	Imperial College, London, UK	8 Mar. 2022
	Parma University, Parma, IT	22 Feb. 2022
	“Mapping the space of QFTs: the numerical S-matrix Bootstrap”, Milano Bicocca, Milan, IT	15 Feb. 2022
	“Rigorous bounds on the analytic S-matrix”, Porto University, Porto, PT	15 Dec. 2021
	“S-matrix Bootstrap for effective field theories” Summer Seminar Series, Simons Center, Stony Brook, US	1 Jul. 2021
	“Where is String Theory?” Theory Seminar, Tor Vergata University of Rome, IT	16 Jun. 2021
	Particle Physics JC, Tel Aviv University, IL	31 May 2021
	Ben Gurion University, Be’er Sheva, IL	12 Apr. 2021
	Padova theory group seminar, Università di Padova, IT	1 Apr. 2021
	Kadanoff Seminar, Chicago University, US – Youtube link	29 Mar. 2021
	String Theory Journal Club, ICTP, Trieste, IT	25 Mar. 2021
	Porto Journal Club, Porto University, Porto, PR	24 Mar. 2021
	Rencontres de la physique théorique, Paris, FR – Youtube link	18 Mar. 2021
	HET Journal Club, Università di Pisa, Pisa, IT	16 Mar. 2021
	CERN string theory group, online seminar	9 Mar. 2021
	HET group meeting, Weizmann Institute, Tel Aviv, IL	1 Mar. 2021
	String Journal Club, ICTP-SAIFR, São Paulo, BR	17 Feb. 2021
	“EFT Bootstrap and the pion S-matrix” – slides Tel-Aviv University theory group seminar, Tel-Aviv, IL	22 Oct. 2020
	IFAE Virtual Seminar Room, IFAE, Barcelona, ES	10 Dec. 2020
	“Exploring the Dual S-matrix Bootstrap” Bootstrap Zoom seminar – Youtube link ,	7 Oct. 2020
	“Bootstrapping EFTs: Pion amplitudes and QCD strings” Università di Roma Tor Vergata, Rome, IT	20 Dec 2019
	“Bootstrapping QCD: the Lake, the Peninsula and the Kink” Particle Physics journal club, ICTP-SAIFR, São Paulo, BR	2 May 2019
	“Bootstrapping QCD: the pion lake and the peninsula” Purdue University, West Lafayette, IN-US	13 Nov. 2018
	“The pion lake and the peninsula” – video link Perimeter Institute, Waterloo, ON-CA	1 Nov. 2018
	“Soft theorems and string theory” Journal Club XXIX Ciclo, Univ. di Roma Tor Vergata, Rome, IT	16 Sep. 2015
	“Exotic spectroscopy and Lattice QCD” Università di Pavia, Pavia, IT	9 Jun. 2015
	“Exotic hadron spectroscopy” Università di Roma Tor Vergata, Rome, IT	9 Jan. 2015
	“Soft behavior of string amplitudes with massive external states” – (poster) IFAE 2015, Rome, IT	8 – 10 Apr. 2015
	Eurostring 2015, Cambridge, UK	23 – 27 Mar. 2015
	“Classification of quark-antiquark sources in Yang-Mills Theories”	

SHORT TERM VISITS	University of Edinburgh, UK	25–29 Aug. 2025
	Institute for Theoretical Physics, Bern, CH	5–9 May 2025
	Perimeter Institute, Waterloo, CA	13–22 Nov. 2024
	King's College, London, UK	21–25 Oct. 2024
	Invited by J. Elias-Miró for 1 week, ICTP-Trieste, IT	Jun. 2024
	Invited by P. Vieira for 3 weeks, ICTP-SAIFR, BR	Apr. 2024
	Invited by A. Zhiboedov for 2 weeks, CERN	Dec. 2023
	Invited by J. Penedones for 1 week, EPFL, Lausanne	Oct. 2023
	Invited by J. Elias-Miró for 3 weeks, ICTP-Trieste	Sep. 2023
	Invited by J. Penedones for 1 week, EPFL, Lausanne	Aug. 2023
	Invited by P. Vieira for 6 weeks, ICTP-SAIFR, Sao Paulo	Jun. – Jul. 2023
	Invited by F. Riva for 2 weeks, Geneve University, Geneve	Dec. 2022
	Invited by M. Bianchi for 2 weeks, Tor Vergata University, Rome	Nov. 2022
	Invited by J. Penedones for 3 weeks, EPFL, Lausanne, CH	Nov. 2022
	Invited by J. Elias-Miró for 3 weeks, ICTP-Trieste, IT	Oct. 2022
	Invited by P. Vieira for 1 month, ICTP-SAIFR, BR	May – June 2022
	KITP Program: Confinement, Flux Tubes, and Large N, KITP, CA-US	Jan. – Feb. 2022
	Invited by M. Costa for 1 week, Porto University, PT	Dec. 2021
	Invited by J. Elias-Miró for 1 month, ICTP-Trieste, IT	Jun. – Jul. 2021
	Invited by V. Gorbenko and S. Komatsu for 1 week, IAS, Princeton, US-NJ	Feb. 2020
	Invited by P. Vieira for 3 months, Perimeter Institute, ON-CA	Jun. – Aug. 2019
	Invited by J. Penedones for 3 weeks, EPFL, Lausanne, CH	Mar. 2019
	Invited by P. Vieira for 3 weeks, Perimeter Institute, ON-CA	Oct. – Nov. 2018
	Invited by P. Vieira for 3 weeks, Perimeter Institute, ON-CA	Nov. – Dec. 2017
	Invited by J. Penedones for 3 weeks, EPFL, Lausanne, CH	Sep. – Oct. 2017
	Hosted by A. Petkou for 3 weeks, Aristotle University, Thessaloniki, EH	Mar. – Apr. 2016
	Hosted by N. Tantalo for 1 month, Cern Theory Group, CERN	May – Jun. 2014

CONFERENCES, WORKSHOPS, SCHOOLS ATTENDED	Bootstrap 2025, Instituto Principia, Sao Paulo, BR	Jul. 21–Aug. 8 2025
	Amplitudes Afterparty in Taiwan, Taiwan National University	Jun. 23–27 2025
	Amplitudes 2025, Seoul National University, Seoul	Jun. 16–20 2025
	FPUK Edinburgh Festival 2025, University of Edinburgh, UK	Jun. 10–12 2025
	Bootstrap, Holography & Swampland, Aspen Center for Physics	May 26–Jun. 5 2025
	Bootstrapping Amplitudes from Weak to Strong Coupling, CERN	May 19–23 2025
	PCTS Simons Confinement Workshop, Princeton University, NJ	Nov. 10–12 2024
	Confinement and QCD Strings Annual Meeting, Flatiron Institute, NY	Nov. 7–8 2024
	Mini workshop on the S matrix Bootstrap, Annecy, FR	Sep. 20 2024
	Amplitude Methods for Gravity and Cosmology II, KIAS, Seoul, KR	Aug. 1–2 2024
	QUC School on A.I. in High Energy Physics – Amplitudes, KIAS, Seoul, KR	Jul. 29–31 2024
	Bootstrap 2024, UCM, Madrid, ES	July 1–19 2024
	S-matrix Bootstrap 2024, University of Iceland, Reykjavik, IS	Jun. 24–28
	Strings, CERN, CH	June 3–7 2024
	Confining Strings, Les Diablerets, CH	May 20–31 2024
	Luso-Brazilian Meeting in theoretical and mathematical physics, Recife, BR 2024	Feb. 26– Mar. 1
	50+ ϵ Years of Conformal Bootstrap, Pisa, IT	Feb. 19–23 2024
	Iberian Strings 2024, Porto, PT	Jan. 17–19 2024
	QCD meets Gravity, CERN	Dec 11–15 2023
	2023 Simons Collaboration on the Nonperturbative Bootstrap, NY	Nov 9–10 2023
	2023 Simons Collaboration on Confinement and QCD Strings, NY	Nov 2–3 2023
	NYU Confinement Workshop, NYU, New York	Oct. 31–Nov. 1 2023
	Great Lessons from Exact techniques and Beyond, Tropea, IT	Aug. 28 – Sep. 1 2023

S-matrix Bootstrap Workshop V, Les Diablerets (SwissMap station), CH	Aug. 20–25 2023
Bootstrap 2023, ICTP-SAIFR, BR	Jun. 26 – Jul. 14 2023
Holography@25, ICTP-SAIFR, BR	14–17 June 2023
Quark Confinement 2023, UMN, Minneapolis, MN-US	02–06 May 2023
Accessing and Understanding the QCD Spectra, INT, Seattle, WA-US	20 – 24 Mar. 2023
Avogadro Meeting 2022, Turin, IT	20 – 22 Dec. 2022
Bootstrap 2022, Porto, PT	20 Jun. – 15 Jul. 2022
S-matrix Bootstrap IV, Crete, GR	18 – 22 Apr. 2022
Flux tubes, Quark Confinement and Exotic Hadrons, (zoom conference)	18 – 24 Jan. 2022
KITP Program: Confinement, Flux Tubes, and Large N, UCSB, CA-US	3 Jan. – 11 Feb. 2022
Avogadro Meeting 2021, Florence, IT	20 – 22 Dec. 2021
Positivity and Bootstrap, CERN	31 May – 2 June 2021
Bootstrap 2020 (zoom conference), Harvard, MA-US	1 – 26 June 2020
Large N theories and strings: conformal, confining and holographic, PCTS	19 – 22 Feb. 2020
Simons Collaboration on the Nonperturbative Bootstrap Annual Meeting 2019	7 – 8 Nov. 2019
Developments in the Numerical Bootstrap, Stony Brook, NY-US	4 – 6 Nov. 2019
Bootstrap 2019, Perimeter Institute, Waterloo, ON-CA	15 Jul. – 2 Aug. 2019
Nonperturbative methods for conformal theories, IIP, Natal, BR	1 – 12 Apr. 2019
Simons Collaboration on the Nonperturbative Bootstrap Annual Meeting	8 – 9 Nov. 2018
Bootstrap 2018, Caltech, Pasadena, CA-US	2 – 27 Jul. 2018
Simons Collaboration Project Meeting: S-matrix Bootstrap, Azores, PT	20 – 25 May 2018
6-th Rome Joint Workshop: Weird Theoretical Ideas, INFN Frascati, IT	18 – 20 Dec. 2017
Simons Collaboration on the Nonperturbative Bootstrap Annual Meeting	9 – 10 Nov. 2017
Bootstrap 2017, São Paulo, BR	15 May – 15 Jun. 2017
Discrete Geometry and Statistics, Chulaongkorn Univ., Bangkok, TH	30 Jan. – 3 Feb. 2017
6-th Bangkok Workshop on high-energy th., Chulalongkorn Univ, Bangkok, TH	9 – 13 Jan. 2017
XII-th Quark Confinement and Hadron Spectrum, Thessaloniki, GR	28 Aug. – 2 Sep. 2016
Amplitudes 2016 International Conference, Nordita, Stockholm, SE	4 – 8 Jul. 2016
TFI 2015, Univ. di Napoli Federico II, Naples, IT	18 – 20 Nov. 2015
Mathematics and Physics at the Crossroads, INFN Frascati, IT	6 Jun. – 29 Jul. 2016
Fourteenth Marcel Grossmann Meeting, Rome, IT	12 – 18 Jul. 2015
Strings 2015, ICTS-TIFR, Bengaluru, IN	22 – 26 Jun. 2015
Incontro sulla fisica con ioni pesanti a LHC, Bologna, IT	26 – 27 May 2015
2nd Belle II Theory Interface Platform (B2TiP), Krakow, PL	27 – 29 Apr. 2015
IFAE 2015, Rome, IT	8 – 10 Apr. 2015
Eurostring 2015, Cambridge, UK	23 – 27 Mar. 2015
CERN Winter School on Supergravity, Strings and Gauge Theories 2015	2 – 6 Feb. 2015
Quarkonium 2014, CERN	10 – 14 Nov. 2014
INFN Piano Triennale 2015–2017, Trento, IT	7 – 8 Nov. 2014
Lattice 2014, Columbia University, New York, NY-US	23 – 28 Jun. 2014
INFN What Next, Rome, IT	7 – 8 Apr. 2014
Lattice Practices, DESY, Zeuthen, DE	5 – 7 Mar. 2014
Lattice QCD and hadron physics, ECT*, Trento, IT	14 – 16 Jan. 2014
Lattice 2013, Mainz, DE	29 Jul. – 3 Aug. 2013

RESEARCH
COMPUTING
SKILLS

- Proficient in Mathematica programming
- Very good level of programming in C and C++
- Very good level of Python and script languages

LANGUAGES

Italian: mother tongue

English: fluent

Portuguese: fluent