

CONTACT INFORMATION	28 Rashleigh House London, WC1H 9ES, UK	+44 7379037643 andrea.leonardo.guerrieri@gmail.com
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 2013 – 2016 Thesis: <i>Soft theorems: from strings to conformal quantum fields</i> Advisor: Massimo Bianchi MSc in Physics, Sapienza Università di Roma , Rome, IT 2011 – 2013 Thesis: <i>Computation of the static quark-antiquark potential on the lattice</i> Supervisor: Massimo Testa mark 110/110 cum laude BSc in Physics, Sapienza Università di Roma , Rome, IT 2008 – 2011 Thesis: <i>Non-abelian anyons and topological quantum computation</i> Supervisor: Antonio Polosa mark 110/110 cum laude 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, Sao Paulo, BR	21 July – 8 Aug. 2025
S-matrix Bootstrap 2024, Reykjavik, 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

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

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: “ <i>S</i> -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 <i>S</i> -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

	“Flavored tetraquark spectroscopy” – slides Lattice 2014, Columbia University, New York, NY-US	25 Jun. 2014
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, Hamburg, 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. 2024
	“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

“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 theorique, 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

CONFERENCE
POSTERS

“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 Insitute, 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	Feb. 26– Mar. 1 2024
50+€ 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