

Alan Rios Fukelman

Curriculum Vitae

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Education

- 2018–2022 **PhD**, *The planar limit of $\mathcal{N} = 2$ Lagrangian superconformal field theories* (Advisor: Prof. Bartomeu Fiol Nuñez), Institut de Ciències del Cosmos, Barcelona, Spain.
- 2009–2017 **Master in Theoretical Physics**, *Wilson Loops for higher rank representations in AdS/CFT*, (Advisor: Prof. Diego H. Correa), Universidad de Buenos Aires, Buenos Aires, Argentina, GPA: 9.07/10.

Awards & Scholarships

- 2018–2022 **FPI**, *Scholarship from the Ministerio de Ciencia e Innovación (Spanish Government)*.

Publications

- 2021 **On the planar free energy of matrix models**, Bartomeu Fiol and Alan Rios Fukelman, *JHEP* (02) 078, [arXiv:2111.14783].
- 2021 **The planar limit of $\mathcal{N} = 2$ chiral correlators**, Bartomeu Fiol and Alan Rios Fukelman, *JHEP* (08) 032, [arXiv:2106.04553].
- 2020 **The planar limit of $\mathcal{N} = 2$ superconformal quiver theories**, Bartomeu Fiol, Jairo Martínez-Montoya and Alan Rios Fukelman, *JHEP* (08) 161, [arXiv:2006.06379].
- 2020 **The planar limit of $\mathcal{N} = 2$ superconformal field theories**, Bartomeu Fiol, Jairo Martínez-Montoya and Alan Rios Fukelman, *JHEP* (05) 136, [arXiv:2003.02879].
- 2019 **Wilson loops in terms of color invariants**, Bartomeu Fiol, Jairo Martínez-Montoya and Alan Rios Fukelman, *JHEP* (05) 202, [arXiv:1812.06890].
- 2018 **Dyson equations for correlators of Wilson loops**, Diego Correa, Pablo Pisani, Alan Rios Fukelman and Konstantin Zarembo, *JHEP* (12) 100, [arXiv:1811.03552].
- 2018 **Ladder limit for Correlators of Wilson Loops**, Diego Correa, Pablo Pisani and Alan Rios Fukelman, *JHEP* (05) 168, [arXiv:1803.02153].

Research Talks

- 2021 **The planar limit of $\mathcal{N} = 2$ superconformal field theories and chiral correlators**, *University of Torino, Italy.*
- 2021 **The planar limit of $\mathcal{N} = 2$ superconformal field theories and chiral correlators**, *Online seminar at Nordita, Sweden.*
- 2021 **The planar limit of $\mathcal{N} = 2$ superconformal field theories**, *Online seminar at the DESY String theory group..*
- 2021 **Wilson Loops: A window to the unknown**, *Online Colloquium at the Institut of Cosmos Sciences., Barcelona, Spain..*
- 2020 **Solving $\mathcal{N} = 2$ superconformal field theories**, *Online Seminar at the String Theory Group in the Instituto de Física de La Plata., La Plata, Argentina.*
- 2018 **A ladder limit for the correlator of Wilson Loops**, *Seminar given at the Instituto de Ciencias del Cosmos, Universidad de Barcelona, Barcelona, Spain.*
- 2016 **Higher rank representations of Wilson Loops in AdS/CFT** , *Seminar given at the String Theory Group of the Instituto de Física de La Plata, La Plata, Argentina.*
- 2016 **Wilson Loops in the AdS/CFT correspondence**, *Seminar given at the Pontificia Universidad Católica, Santiago de Chile, Chile.*

--- Schools & Workshops

- 2021 **Siembra-HoLAGrav Young Frontiers Meeting II (Organizer)**, *September 6-8, online.*
- 2021 **Strings 2021**, *June 21 - July 2. ICTP-SAIFR, São Paulo.*
- 2021 **Pre-Strings 2021**, *June 14-18. International Institute of Physics, Federal University of Rio Grande do Norte, São Paulo.*
- 2021 **Iberian Strings 2021**, *January 19-22. IST, Lisbon.*
- 2020 **Siembra-HoLAGrav Young Frontiers Meeting (Organizer)**, *December 16-18, online.*
- 2020 **2nd Latin American Workshop on Gravity and Holography**, *July 20–24 2020, online.*
- 2020 **Strings 2020**, *June 29–July 3 2020, online.*
- 2020 **YRIS 2020: A modern primer for Superconformal field theories**, *February 9-16 2020, DESY, Hamburg, Germany.*
- 2019 **LACES, Lezioni Avanzate de Campi e stringhe**, *Galileo Galilei Institute for Theoretical Physics, Firenze, Italia.*
- 2019 **ICTP Spring School on Superstring Theory and Related Topics**, *The Abdus Salam International Centre for Theoretical Physics, Trieste, Italia.*

- 2019 **CERN Winter School on Supergravity, Strings and Gauge Theor**, *Ginebra, Suiza.*
- 2019 **Iberian Strings**, *Institut de Ciències del Cosmos, Universitat de Barcelona.*
- 2018 **LACES, Lezioni Avanzate de Campi e stringhe**, *Galileo Galilei Institute for Theoretical Physics, Firenze, Italia.*
- 2018 **School on Supersymmetric Localization, Holography and Related Topics**, *The Abdus Salam International Centre for Theoretical Physics, Trieste, Italia.*
- 2018 **ICTP Spring School on Superstring Theory and Related Topics**, *The Abdus Salam International Centre for Theoretical Physics, Trieste, Italia.*
- 2017 **Introduction to Quantum Field Theory II**, *Post graduate course at the Instituto de Física de La Plata, lectured by Prof. Horacio Falomir.*
- 2017 **School on Quantum Field Theory, Condensed Matter and Information Theory**, *Instituto Balseiro, Bariloche, Argentina, Final Grade 9/10.*
- 2017 **The SYK model and Black Holes**, *Advanced Topics in High Energy Physics, Juan Martín Maldacena, Instituto de Física del Espacio, UBA.*
- 2017 **Introduction to Quantum Field Theory I**, *Post graduate course at the Instituto de Física de La Plata, lectured by Prof. Horacio Falomir.*
- 2016 **String theory, dimensional reduction and effective actions**, *Lectures in High Energy Physics, Mariana Graña, Departamento de Física, UBA.*
- 2016 **Strings @ar Congress**, *Instituto de Astronomía y Física del Espacio, UBA.*
- 2016 **Strings @ar Summer Congress**, *Instituto de Astronomía y Física del Espacio, UBA.*
- 2015 **Advanced Topics in superstring theory**, *Lectures in High Energy Physics, Jorge Russo, Departamento de Física, UBA.*

Work Experience

- 2019-2021 **Teaching Assistant**, *Universitat de Barcelona, Barcelona, Spain.*
- 2017 **Teaching Assistant**, *Physics Department, FCEyN, Universidad de Buenos Aires, Buenos Aires, Argentina.*

Languages

Spanish Native
 English Fluent
 Catalan B1

TOEFL: : 110/120