

ALBERTO FARAGGI  
Profesor Asistente  
Facultad Ciencias Exactas  
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Santiago  
Chile  
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## Intereses de la investigación

Theoretical High Energy Physics

## Employment

### Profesor Asistente

Facultad Ciencias Exactas  
Universidad Andrés Bello  
17 jul 2017 → present

### Adjoint Instructor

Universidad de Chile  
Chile  
1 ene 2017 → 1 ene 2017

### Postdoctoral Researcher

Pontificia Universidad Católica de Chile  
Chile  
1 ene 2014 → 1 ene 2017

### Adjoint Instructor

Pontificia Universidad Católica de Chile  
Chile  
1 ene 2014 → 1 ene 2017

### Postdoctoral Researcher

Universidade de São Paulo  
Brasil  
1 ene 2012 → 1 ene 2014

## Research outputs

### A note on the $N = 2$ super- $W_3$ holographic dictionary

Castro, A., Faraggi, A. & Osorio, I., dic 2020, En: Journal of High Energy Physics. 2020, 12, 177.

### One-loop holography with strings in $AdS_4 \times CP^3$

David, M., de León Ardón, R., Faraggi, A., Pando Zayas, L. A. & Silva, G. A., 1 oct 2019, En: Journal of High Energy Physics. 2019, 10, 70.

### Note on generating functions and connected correlators of 1/2-BPS Wilson loops in $N = 4$ SYM theory

Canazas Garay, A. F., Faraggi, A. & Mück, W., 1 ago 2019, En: Journal of High Energy Physics. 2019, 8, 149.

### Zeta-function regularization of holographic Wilson loops

Aguilera-Damia, J., Faraggi, A., Pando Zayas, L. A., Rathee, V. & Silva, G. A., 15 ago 2018, En: Physical Review D. 98, 4, 046011.

### **Antisymmetric Wilson loops in $N=4$ SYM: from exact results to non-planar corrections**

Canazas Garay, A. F., Faraggi, A. & Mück, W., 1 ago 2018, En: Journal of High Energy Physics. 2018, 8, 149.

### **Toward precision holography in type IIA with Wilson loops**

Aguilera-Damia, J., Faraggi, A., Pando Zayas, L. A., Rathee, V. & Silva, G. A., 1 ago 2018, En: Journal of High Energy Physics. 2018, 8, 44.

### **Functional determinants of radial operators in $AdS_2$**

Aguilera-Damia, J., Faraggi, A., Zayas, L. P., Rathee, V. & Silva, G. A., 1 jun 2018, En: Journal of High Energy Physics. 2018, 6, 7.

### **Phases of higher spin black holes: Hawking-Page, transitions between black holes, and a critical point**

Bañados, M., Düring, G., Faraggi, A. & Reyes, I. A., 15 ago 2017, En: Physical Review D. 96, 4, 043526.

### **Extremal higher spin black holes**

Bañados, M., Castro, A., Faraggi, A. & Jottar, J. I., 1 abr 2016, En: Journal of High Energy Physics. 2016, 4, 77.

### **Toward precision holography with supersymmetric Wilson loops**

Faraggi, A., Pando Zayas, L. A., Silva, G. A. & Trancanelli, D., 1 ene 2016, En: Journal of High Energy Physics. 2016, 4, 053.

### **One-loop structure of higher rank Wilson loops in $AdS/CFT$**

Faraggi, A., Liu, J. T., Pando Zayas, L. A. & Zhang, G., 5 ene 2015, En: Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics. 740, p. 218-221 4 p.

### **One-loop effective action of the holographic antisymmetric Wilson loop**

Faraggi, A., Mück, W. & Pando Zayas, L. A., 29 may 2012, En: Physical Review D - Particles, Fields, Gravitation and Cosmology. 85, 10, 106015.

### **The spectrum of excitations of holographic Wilson Loops**

Faraggi, A. & Zayas, L. A. P., 29 sep 2011, En: Journal of High Energy Physics. 2011, 5, 018.

### **Fermions and $D = 11$ supergravity on squashed Sasaki-Einstein manifolds**

Bah, I., Faraggi, A., Jottar, J. I., Leigh, R. G. & Zayas, L. A. P., 28 sep 2011, En: Journal of High Energy Physics. 2011, 2, 068.

### **Fermions and type IIB supergravity on squashed Sasaki-Einstein manifolds**

Bah, I., Faraggi, A., Jottar, J. I. & Leigh, R. G., 1 ene 2011, En: Journal of High Energy Physics. 2011, 1, 100.

### **Holographic entanglement entropy at finite temperature**

Bah, I., Faraggi, A., Pando Zayas, L. A. & Terrero-Escalante, C. A., 10 jun 2009, En: International Journal of Modern Physics A. 24, 14, p. 2703-2728 26 p.

### **$N=2$ supergravity in three dimensions and its Gödel supersymmetric background**

Bañados, M., Faraggi, A. T. & Theisen, S., 14 jun 2007, En: Physical Review D - Particles, Fields, Gravitation and Cosmology. 75, 12, 125015.

## **Activities**

### **VIII Quantum Gravity in the Southern Cone**

ALBERTO FARAGGI (Orador)

16 dic 2019 → 20 dic 2019

**Ph.D. Thesis Defense Committee**

ALBERTO FARAGGI UGALDE (Examinador)  
13 sep 2019

**Escuela HEP-UC 2019: Topics on Gravit culas**

ALBERTO FARAGGI (Participante)  
29 jul 2019 → 27 ago 2019

**Abdus Salam International Centre for Theoretical Physics**

ALBERTO FARAGGI UGALDE (Investigador visitante)  
1 jul 2019 → 21 jul 2019

**Gravity at UCEN 2019**

ALBERTO FARAGGI (Orador)  
1 abr 2019 → 5 abr 2019

**Diego Correa**

ALBERTO FARAGGI UGALDE (Presentador)  
14 ene 2019 → 18 ene 2019

**Guillermo A. Silva**

ALBERTO FARAGGI UGALDE (Presentador)  
14 ene 2019 → 18 ene 2019

**Fulbright Chile**

ALBERTO FARAGGI (Examinador)  
2019

**Physical Review D (Revista)**

ALBERTO FARAGGI (Revisor)  
2019

**Winter school: Topics on Gravit culas 2018**

ALBERTO FARAGGI (Participante)  
23 jul 2018 → 27 jul 2018

**Latin-American Workshop on Gravity and Holography**

ALBERTO FARAGGI (Orador)  
4 jun 2018 → 8 jun 2018

**Workshop on Higher Spin and Dualities in Puc n**

ALBERTO FARAGGI (Orador)  
8 abr 2018 → 14 abr 2018

**Phillip Szepietowski**

ALBERTO FARAGGI UGALDE (Presentador)  
19 ene 2018 → 26 ene 2018

**Fulbright Chile**

ALBERTO FARAGGI UGALDE (Examinador)  
2018

**Journal of High Energy Physics (Revista)**  
ALBERTO FARAGGI UGALDE (Revisor)  
2018

**Ph.D. Thesis**  
ALBERTO FARAGGI UGALDE (Examinador)  
11 dic 2017

**Workshop on Supersymmetric Localization and Holography**  
ALBERTO FARAGGI (Orador)  
16 oct 2017 → 18 oct 2017

**University of Amsterdam**  
ALBERTO FARAGGI UGALDE (Investigador visitante)  
31 ene 2017 → 13 feb 2017

**Physical Review Letters (Revista)**  
ALBERTO FARAGGI UGALDE (Revisor)  
2017

**Physical Review D (Revista)**  
ALBERTO FARAGGI UGALDE (Revisor)  
2015