

EMPLOYMENT **Harvard University**, Cambridge, MA

Fellow at the Black Hole Initiative, 2019 – *present*

UCSB, Santa Barbara, CA

Postdoctoral Scholar in the Gravity Group, 2016 – 2019

EDUCATION **Harvard University**, Cambridge, MA

Ph.D. in Theoretical Physics, May 2016

Massachusetts Institute of Technology, Cambridge, MA

B.S. in Physics, June 2010

Anatolia College, Thessaloniki, Greece

High school, June 2005

AWARDS/
HONORS

DOE High Energy Physics Graduate Fellowship in Theory, September 2012

James Mills Peirce Fellowship, Harvard University, September 2010

Philip Morse Memorial Award, MIT Department of Physics, June 2010

Phi Beta Kappa (ΦBK), Sigma Pi Sigma ($\Sigma\Pi\Sigma$), June 2010

National Society of Collegiate Scholars (NSCS), July 2007

- Merit Award scholarship, Sep. 2007

Mathematical Olympiads

- Honorable Mention, 45th International Mathematical Olympiad (IMO), July 2004
- Bronze Medal, 21st Balkan Mathematical Olympiad (BMO), May 2004
- Silver Medal, 7th Mediterranean Mathematical Olympiad (MMO), April 2004
- Bronze Medal, 6th Junior Balkan Mathematical Olympiad (JBMO), July 2002
- Gold (2), Silver (2), Bronze (1) Medals, Greek Mathematical Olympiad, 2001-2005

TEACHING

TA to Prof. Gerald Gabrielse, Quantum Mechanics I, Harvard Spring 2016

- Certificate of Distinction “*for excellence in teaching*”

Grader/TA to Prof. Andrew Strominger, Black Holes from A to Z, Harvard Spring 2015

Grader/TA to Prof. Andrew Strominger, General Relativity, Harvard Fall 2011

Grader/TA to Prof. Frank Wilczek, Symmetry in Quantum Physics, MIT Spring 2010

TA to Dr. Brian Wecht, Physics II: Electricity and Magnetism, MIT Spring 2007

SERVICE

Co-organizer of the Harvard CMSA General Relativity Program, Cambridge MA, Spring 2022

Co-organizer of the 4th Harvard Black Hole Initiative Conference, Cambridge MA, Dec 2020

Co-organizer of the Harvard Black Hole Initiative Colloquium Series, 2020 – 2021
Co-organizer of the UCSB/KITP High Energy and Gravity Seminars, 2018 – 2019
Co-organizer of the 33rd Pacific Coast Gravity Meeting, Santa Barbara CA, March 2017
Organizer of the UCSB/KITP High Energy and Gravity Postdoc Journal Club, 2017 – 2018
Organizer of the Harvard String Theory Graduate Student Seminars, 2013 – 2014

LANGUAGES Fluent in Greek, English, and Russian

CONFERENCE 75^{th+1} CMS Anniversary Summer Meeting, General Relativity session, Ottawa, June 2021
TALKS

4th Harvard Black Hole Initiative Conference, Cambridge MA, Dec 2020

4th USU Strings and Black Holes, Logan UT, April 2019

Cosmology and Gravitational Physics with Lambda, Nordita, August 2018

Gauge/Gravity Duality 2018 (Parallel Session), Würzburg, July 2018

1st Congress of Greek Mathematicians, Athens, June 2018

34th Pacific Coast Gravity Meeting, Caltech, March 2018

4th Xmas Theoretical Physics Workshop, Athens, Dec 2017

9th Regional Meeting in String Theory, Crete, July 2017

7th Quantum Gravity in the Southern Cone conference, Punta del Este, March 2017

33rd Pacific Coast Gravity Meeting, Santa Barbara, March 2017

8th Regional Meeting in String Theory, Nafplio, July 2015

Strings 2014 (Gong Show), Princeton, June 2014

SEMINAR Harvard CMSA General Relativity seminar, February 2022
TALKS

Crete Center for Theoretical Physics seminar, May 2020

Harvard Black Hole Initiative Colloquium, May 2020

Harvard Black Hole Initiative Colloquium, December 2019

UCSB High Energy and Gravity seminar, May 2019

UCSB High Energy and Gravity seminar, February 2018

USC High Energy Theory seminar, March 2017

UCSB High Energy and Gravity seminar, October 2016

Harvard CMSA General Relativity seminar, May 2016

Caltech High Energy Theory seminar, November 2015

UCSB High Energy and Gravity seminar, November 2015

Michigan Brown Bag seminar, September 2015

Crete Center for Theoretical Physics seminar, December 2014

IPMU Mathematics-String Theory seminar, June 2014

Perimeter Institute Strong Gravity seminar, May 2014

UMD Gravitation Theory seminar, April 2014

Brown High Energy Theory seminar, February 2014

Harvard String in-house seminar, January 2014

PUBLICATIONS

A. P. Porfyriadis and G. N. Remmen, “Large Diffeomorphisms and Accidental Symmetry of the Extremal Horizon,” *JHEP* **2203**, 107 (2022). [arXiv:2112.13853 [hep-th]].

A. P. Porfyriadis and G. N. Remmen, “Horizon Acoustics of the GHS Black Hole and the Spectrum of AdS_2 ,” *JHEP* **2110**, 142 (2021). [arXiv:2106.10282 [hep-th]].

S. Hadar, A. Lupsasca, A. P. Porfyriadis, “Extreme Black Hole Anabasis,” *JHEP* **2103**, 223 (2021). [arXiv:2012.06562 [hep-th]].

A. P. Porfyriadis, “Near- AdS_2 perturbations and the connection with near-extreme Reissner-Nordstrom,” *Eur. Phys. J.* **C79**, 841 (2019). [arXiv:1806.07097 [hep-th]].

A. P. Porfyriadis, “Scattering of gravitational and electromagnetic waves off $AdS_2 \times S^2$ in extreme Reissner-Nordstrom,” *JHEP* **1807**, 064 (2018). [arXiv:1805.12409 [hep-th]].

A. Lupsasca, A. P. Porfyriadis, Y. Shi, “Critical Emission from a High-Spin Black Hole,” *Phys. Rev.* **D97**, 064017 (2018). [arXiv:1712.10182 [gr-qc]].

A. Pathak, A. P. Porfyriadis, A. Strominger, O. Varela, “Logarithmic corrections to black hole entropy from Kerr/CFT,” *JHEP* **1704**, 090 (2017). [arXiv:1612.04833 [hep-th]].

A. P. Porfyriadis and S. Hadar, “Whirling orbits around twirling black holes from conformal symmetry,” *JHEP* **1703**, 014 (2017). [arXiv:1611.09834 [hep-th]].

A. P. Porfyriadis, Y. Shi and A. Strominger, “Photon Emission Near Extreme Kerr Black Holes,” *Phys. Rev.* **D95**, 064009 (2017). [arXiv:1607.06028 [gr-qc]].

S. Gralla, A. P. Porfyriadis and N. Warburton, “Particle on the Innermost Stable Circular Orbit of a Rapidly Spinning Black Hole,” *Phys. Rev.* **D92**, 064029 (2015). [arXiv:1506.08496 [gr-qc]].

S. Hadar, A. P. Porfyriadis and A. Strominger, “Fast plunges into Kerr black holes,” *JHEP* **1507**, 078 (2015). [arXiv:1504.07650 [hep-th]].

T. He, P. Mitra, A. P. Porfyriadis and A. Strominger, “New Symmetries of Massless QED,” *JHEP* **1410**, 112 (2014). [arXiv:1407.3789 [hep-th]].

S. Hadar, A. P. Porfyriadis and A. Strominger, “Gravity Waves from Extreme-Mass-Ratio Plunges into Kerr Black Holes,” *Phys. Rev.* **D90**, 064045 (2014). [arXiv:1403.2797 [hep-th]].

A. P. Porfyriadis and A. Strominger, “Gravity Waves from Kerr/CFT,” *Phys. Rev.* **D90**, 044038 (2014). [arXiv:1401.3746 [hep-th]].

- A. P. Porfyriadis and F. Wilczek, “Effective Action, Boundary Conditions, and Virasoro Algebra for AdS_3 ,” [arXiv:1007.1031 [gr-qc]].
- A. P. Porfyriadis, “Anomalies and Hawking fluxes from the black holes of topologically massive gravity,” *Phys. Lett.* **B675**, 235-239 (2009). [arXiv:0904.2042 [hep-th]].
- A. P. Porfyriadis, “Hawking radiation via anomaly cancelation for the black holes of five-dimensional minimal gauged supergravity,” *Phys. Rev.* **D79**, 084039 (2009). [arXiv:0811.2822 [hep-th]].