

**Gabriela Sato-Polito**  
Curriculum Vitae

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<b>PERSONAL INFORMATION</b>	Full Name: Gabriela Satie Sato-Polito e-mail: gsatopolito@ias.edu, gsatopolito@gmail.com Website: <a href="https://gsatopolito.github.io/">https://gsatopolito.github.io/</a>  School of Natural Sciences Institute for Advanced Study 1 Einstein Drive Princeton, NJ 08540, USA	
<b>EMPLOYMENT</b>	<b>Institute for Advanced Study</b> , Postdoctoral Member	
<b>EDUCATION</b>	<b>Johns Hopkins University</b> , Baltimore, MD, USA <i>PhD</i> , Astrophysics, 2023 Advisor: Marc Kamionkowski  <b>University of São Paulo</b> , São Paulo, Brazil <i>Bachelor of Science</i> , Molecular Sciences, August 2018	
<b>AWARDS AND FELLOWSHIPS</b>	<b>National Science Foundation Graduate Research Fellow</b> Dates: 2020 – present  <b>Owen Fellowship Award</b> ; Johns Hopkins University Dates: 8/2018 – 8/2020  <b>Summer Undergraduate Research Fellowship</b> ; California Institute of Technology and Jet Propulsion Laboratory (JPL) Dates: 6/2017 – 8/2017  <b>Undergraduate Research Fellowship</b> (Iniciação Científica); São Paulo Research Foundation (FAPESP) Dates: 12/2016 – 2/2018	
<b>PROFESSIONAL SERVICE</b>	<b>Committee for Diversity and Inclusion</b> , Department of Physics and Astronomy, Johns Hopkins University Dates: 8/2021 – 8/2022  <b>Peer review</b> : ApJ, MNRAS	
<b>PROFESSIONAL DEVELOPMENT</b>	<b>Justice, Equity, Diversity and Inclusion Training</b> , Krieger School of Arts Sciences and the Teaching Academy, Johns Hopkins University Dates: 9/2021	
<b>OUTREACH</b>	<b>Physics Fair</b> at the Department of Physics and Astronomy, JHU	2018, 2019
	<b>Youth in Astronomy and Engineering</b> at the Department of Physics and Astronomy, JHU	2019
	<b>Physics demonstrations and portable planetarium</b> at the Enoch Pratt Free Library, Baltimore, MD	2019

# SELECTED PUBLICATIONS

*Metrics: 12 refereed journal publications (7 first-authored), +3 submitted, 200+ citations, h-index: 9*

1. **Gabriela Sato-Polito**, Matias Zaldarriaga, Eliot Quataert. Where are NANOGrav's big black holes? arXiv:2312.06756, 2023. (submitted)
2. **Gabriela Sato-Polito**, Marc Kamionkowski. Exploring the spectrum of stochastic gravitational-wave anisotropies with pulsar timing arrays. arXiv:2305.05690, 2023. (submitted)
3. **Gabriela Sato-Polito**, Nickolas Kokron, José Luis Bernal. A multi-tracer empirically-driven approach to line-intensity mapping lightcones. Mon.Not.Roy.Astron.Soc. 526 (2023) 4, 5883–5899.
4. José Luis Bernal, Andrea Caputo, **Gabriela Sato-Polito**, Jordan Mirocha, and Marc Kamionkowski. Seeking dark matter with  $\gamma$ -ray attenuation. Phys.Rev.D 107 (2023) 10, 103046.
5. Neha Anil Kumar, **Gabriela Sato-Polito**, Marc Kamionkowski, Selim C. Hotinli. Primordial trispectrum from kSZ tomography. Phys.Rev.D 106 (2022) 6, 063533.
6. José Luis Bernal, **Gabriela Sato-Polito**, Marc Kamionkowski. The cosmic optical background excess, dark matter, and line-intensity mapping. Phys.Rev.Lett. 129 (2022) 23, 231301.
7. **Gabriela Sato-Polito**, José Luis Bernal. Analytical covariance between voxel intensity distributions and line-intensity mapping power spectra. Phys.Rev.D 106 (2022) 10, 103534.
8. **Gabriela Sato-Polito**, Marc Kamionkowski. Pulsar-timing measurement of the circular polarization of the stochastic gravitational-wave background. Phys.Rev.D 106 (2022) 2, 023004.
9. **Gabriela Sato-Polito**, José Luis Bernal, Kimberly K. Boddy, Marc Kamionkowski. Kinetic Sunyaev-Zel'dovich tomography with line-intensity mapping. Phys.Rev.D 103 (2021) 8, 083519.
10. **Gabriela Sato-Polito**, José Luis Bernal, Ely D. Kovetz, and Marc Kamionkowski. Antisymmetric cross-correlation of line-intensity maps as a probe of reionization. Phys. Rev. D 102 (2020) 4, 043519.
11. Antonio D. Montero-Dorta, M. Celeste Artale, L. Raul Abramo, Beatriz Tucci, Nelson Padilla, **Gabriela Sato-Polito**, Iván Lacerna, Facundo Rodriguez, and Raul E. Angulo. The manifestation of secondary halo bias on the galaxy population from IllustrisTNG300. Mon. Not. Roy. Astron. Soc. 496 (2020) 2, 1182-1196.
12. **Gabriela Sato-Polito**, Ely D. Kovetz, and Marc Kamionkowski. Constraints on the primordial curvature power spectrum from primordial black holes. Phys.Rev.D 100 (2019) 6, 063521.
13. **Gabriela Sato-Polito**, Antonio D. Montero-Dorta, L. Raul Abramo, Francisco Prada, and Anatoly Klypin. The dependence of halo bias on age, concentration and spin. Mon.Not.Roy.Astron.Soc. 487 (2019) 2, 1570-1579.

# SELECTED TALKS

Present and Future of Line-Intensity Mapping, MPA	4/2023
IAS Cosmology Lunch	12/2022
MIT Brown Bag Lunch (invited)	11/2022
CfA seminar (invited)	11/2022
Ohio State University CCAPP seminar (invited)	11/2022
Perimeter Institute Cosmology Seminar (invited)	10/2022
UT Austin Theory Group Seminar (invited)	9/2022
LBNL/UC Berkeley Cosmology Seminar (invited)	9/2022
Stanford Cosmology Seminar (invited)	9/2022
BCCP Vipolže Workshop	7/2022
BCCP Reionization Workshop, UC Berkeley	3/2022

TEACHING	Electricity and Magnetism Laboratory	Spring 2020
	Classical Mechanics Laboratory	Fall 2019
	General Physics II for Physical Science Majors	Spring 2019
	General Physics Laboratory II	Spring 2019
	General Physics I for Biological Science Majors	Fall 2018
	General Physics Laboratory I	Fall 2018

REFERENCES	<b>Marc Kamionkowski</b> <i>William R. Kenan Jr. Professor</i> <i>Department of Physics and Astronomy</i> Johns Hopkins University (+1) 410-516-0373 <a href="mailto:kamion@jhu.edu">kamion@jhu.edu</a>	<b>Ely D. Kovetz</b> <i>Senior Lecturer</i> <i>Department of Physics</i> Ben-Gurion University (+972) 545-953349 <a href="mailto:kovetz@bgu.ac.il">kovetz@bgu.ac.il</a>
	<b>Emanuele Berti</b> <i>Professor, Department of</i> <i>Physics and Astronomy</i> Johns Hopkins University (+1) 410-516-2535 <a href="mailto:berti@jhu.edu">berti@jhu.edu</a>	<b>Kimberly K. Boddy</b> <i>Assistant Professor</i> <i>Department of Physics</i> The University of Texas at Austin (+1) 512-471-5430 <a href="mailto:kboddy@physics.utexas.edu">kboddy@physics.utexas.edu</a>