

# Goni Halevi

Princeton University  
Dept. of Astrophysical Sciences  
4 Ivy Ln.  
Princeton, NJ 08540

[ghalevi@princeton.edu](mailto:ghalevi@princeton.edu)  
[gonihalevi.github.io](https://github.com/gonihalevi)  
Peyton Hall 015 (PU campus)  
Bloomberg Hall 048 (IAS)

Education	<b>Princeton University</b> Ph.D., Astrophysical Sciences, 2023 (expected) M.A., Astrophysical Sciences, 2019 <b>University of California, Berkeley</b> B.A., Physics, 2017 B.A., Astrophysics, 2017
Scientific Interests	High-energy, nuclear, computational astrophysics <i>Transients, compact objects, thermonuclear burning, r-process, accretion, MHD</i>
Awards and Fellowships	<i>Graduate Student Fellowship (Math/Physics)</i> , Prison Teaching Initiative, 2020– <i>Graduate Research Fellowship</i> , National Science Foundation, 2019-2022 <i>Outstanding Graduate Student Instructor</i> , UC Berkeley, 2017 <i>Commencement Speaker (\$1000)</i> , UC Berkeley Astronomy Dept., 2017 <i>Google Lick Pre-doctoral Fellowship</i> , Google/Lick Observatory, 2016–2017 <i>Daniel Edward Wark Award (\$5000)</i> , UC Berkeley Astronomy Dept., 2015
Presentations	<b>Talks and seminars</b> (* = invited) *“Toward more realistic simulations of astrophysical transients,” <i>High-Energy Astro Journal Club</i> , University of Chicago, Apr. 2022 *“Panning for gold: The formation of heavy elements,” <i>Physics Colloquium</i> , Franklin and Marshall College, Apr. 2022 *“Nuclear-MHD modeling of WD transients,” <i>Astronomy Seminar</i> , Indiana University (remotely), Apr. 2021 *“Nuclear-MHD modeling of WD transients,” <i>Astronomy Seminar</i> , UW Madison (remotely), Nov. 2020 “HSC-XD: A new X-ray search for AGN in dwarf galaxies out to $z \sim 1$ ,” <i>Session on AGN &amp; Quasars</i> , AAS 235, Honolulu, Jan. 2020 *“Jet-driven core-collapse supernovae as a candidate site for r-process nucleosynthesis,” <i>Multi-Messenger astrophysics in the gravitational wave era</i> , Yukawa Institute for Theoretical Physics, Kyoto, Oct. 2019 *“Implementation of Nuclear Reactions in Athena++,” <i>Athena++ Developers Meeting</i> , UNLV, Mar. 2019 *“Jet-driven core-collapse supernovae as a candidate site for r-process nucleosynthesis,” <i>Filippenkopalooza Pre-Meeting</i> , UC Santa Cruz, Aug. 2018 *“Jet-driven core-collapse supernovae as a candidate site for r-process nucleosynthesis,” <i>NS mergers for non-experts</i> , MSU, May 2018 *“Jet-driven core-collapse supernovae as a candidate site for r-process nucleosynthesis,” <i>MHD group meeting</i> , Princeton University, Mar. 2018

## Posters

*229th meeting of the AAS, Grapevine, TX, Jan. 2017*

*APS Conference for Undergraduate Women in Physics, UCSD, Jan. 2016*

Selected  
Publications  
*Complete List:*  
*ADS/arXiv*

Stahl, ..., **Halevi**, et al. (2019). “Lick Observatory Supernova Search Follow-Up Program: Photometry Data Release of 93 Type Ia Supernovae” (*MNRAS*)  
**Halevi** et al. (2019) “HSC-XD 52: An X-ray detected AGN in a low-mass galaxy at  $z \sim 0.56$ ” (*ApJL*)  
de Jaeger, ..., **Halevi**, et al. (2019) “The Berkeley sample of Type II supernovae: BVRI light curves and spectroscopy of 55 SNe II” (*MNRAS*)  
Mösta, Roberts, **Halevi**, et al. (2018) “ $r$ -process Nucleosynthesis from Three-dimensional Magnetorotational Core-collapse Supernovae” (*ApJ*)  
de Jaeger, ..., **Halevi**, et al. (2018) “SN 2016esw: a luminous Type II supernova observed within the first day after the explosion” (*MNRAS*)  
**Halevi** & Mösta (2018) “ $r$ -Process nucleosynthesis from three-dimensional jet-driven core-collapse supernovae with magnetic misalignments” (*MNRAS*)

Teaching

**East Jersey State Prison (Raritan Valley Community College)**

Head instructor, “Introductory Physics (with Lab)”, Spring 2020

Head instructor, “Elementary Algebra”, Fall 2019

Instructor, “Astronomy”, Fall 2018

**Dept. of Astrophysical Sciences, Princeton University**

Assistant in Instruction, “Topics in Modern Astronomy”, Spring 2022

Assistant in Instruction, “Cosmology”, Spring 2020

Assistant in Instruction, “The Universe”, Spring 2019

**Dept. of Astronomy, UC Berkeley**

Student instructor, “Introduction to Astrophysics II”, Spring 2016/2017

Student instructor, “Introduction to General Astronomy”, Fall 2015/2016

Outreach,  
Leadership,  
Service

*Peer Reviewer*, Monthly Notices of the Royal Astronomical Society

*Peer Reviewer*, The Astrophysical Journal

*Mentorship Committee*, Dept. of Astrophysical Sciences,  
Princeton University, 2021–

*Graduate Student Mentor*, Científico Latino, 2019

*Executive Board Member*, Princeton University Women in Physics, 2019 –

*Co-founder, Graduate Student Representative*, Climate Committee for  
Equity and Inclusion, Dept. of Astrophysical Sciences, Princeton  
University, 2018–2021

*Public observing volunteer*, Peyton Observatory, 2018-2019

*Volunteer Astronomer*, Public Programs Series, Lick Observatory, 2015-2019

*Co-founder, facilitator*, AstroJustice Discussion Group, UC Berkeley, 2015–17  
*Undergraduate coordinator*, Society for Women in the Physical Sciences, UC  
Berkeley, 2015–17

*Co-founder, Organizing Committee Member*, Undergraduate Astronomy  
Society, UC Berkeley, 2015–17

*Vice president*, Society of Physics Students, UC Berkeley, 2015–16

*Outreach coordinator*, Society of Physics Students, UC Berkeley, 2014–15