Goni Halevi

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

ghalevi@princeton.edu
gonihalevi.github.io
Peyton Hall 015 (PU campus)
Bloomberg Hall 048 (IAS)

Education

Princeton University
Ph.D., Astrophysical Sciences, 2023 (expected)
M.A., Astrophysical Sciences, 2019
University of California, Berkeley
B.A., Physics, 2017
B.A., Astrophysics, 2017

Scientific Interests

High-energy, nuclear, computational astrophysics
Transients, compact objects, thermonuclear burning, r-process, accretion, MHD

Awards and Fellowships

Graduate Student Fellowship (Math/Physics), Prison Teaching Initiative, 2020–
Graduate Research Fellowship, National Science Foundation, 2019-2022
Outstanding Graduate Student Instructor, UC Berkeley, 2017
Commencement Speaker ($1000), UC Berkeley Astronomy Dept., 2017
Google Lick Pre-doctoral Fellowship, Google/Lick Observatory, 2016–2017
Daniel Edward Wark Award ($5000), UC Berkeley Astronomy Dept., 2015

Presentations

Talks and seminars (* = invited)

*"Nuclear-MHD modeling of WD transients," *Astronomy Seminar*, Indiana University (remotely), Apr. 2021

*"Nuclear-MHD modeling of WD transients," *Astronomy Seminar*, UW Madison (remotely), Nov. 2020

"HSC-XD: A new X-ray search for AGN in dwarf galaxies out to $z \sim 1$," *Session on AGN & Quasars*, AAS 235, Honolulu, Jan. 2020

*"Jet-driven core-collapse supernovae as a candidate site for r-process nucleosynthesis," *Multi-Messenger astrophysics in the gravitational wave era*, Yukawa Institute for Theoretical Physics, Kyoto, Oct. 2019

"Implementation of Nuclear Reactions in Athena++," *Athena++ Developers Meeting*, UNLV, Mar. 2019

*"Jet-driven core-collapse supernovae as a candidate site for r-process nucleosynthesis," *Filippenkopalooza Pre-Meeting*, UC Santa Cruz, Aug. 2018

*"Jet-driven core-collapse supernovae as a candidate site for r-process nucleosynthesis," *NS mergers for non-experts*, MSU, May 2018

*"Jet-driven core-collapse supernovae as a candidate site for r-process nucleosynthesis," *MHD group meeting*, 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*)

Zheng, ..., **Halevi**, et al. (2017) "Discovery and Follow-up Observations of the Young Type Ia Supernova 2016coj" (*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, "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, E&I

Graduate Student Mentorship Lead, 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

Languages

English (native), Hebrew (native)