Goni Halevi

Northwestern University, CIERA
1800 Sherman Ave, 8th Floor
Evanston, IL 60201

goni@northwestern.edu
gonihalevi.github.io

Education

Princeton University
PhD, Astrophysical Sciences, 2023, *Toward self-consistent models of high-energy transients from stellar remnants*, advised by Prof. Jim Stone
University of California, Berkeley
BA, Physics & BA, Astrophysics, 2017 *(with distinction in general scholarship)*

Research Interests

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

Awards and Fellowships

CIERA Postdoctoral Fellowship, Northwestern University, 2023–
Graduate Student Fellowship (Math/Physics), Prison Teaching Initiative, 2020-23
Graduate Research Fellowship, National Science Foundation, 2019-22
Outstanding Graduate Student Instructor, UC Berkeley, 2017
Commencement Speaker ($1000), UC Berkeley Astronomy Dept., 2017
Google Lick Pre-doctoral Fellowship, Google/Lick Observatory, 2016–17
Daniel Edward Wark Award ($5000), UC Berkeley Astronomy Dept., 2015

Presentations

Selected talks and seminars (* = invited)

- *"Toward self-consistent simulations of stellar transients," *Theory Group Meeting*, CIERA (Northwestern), Oct. 2022
- *"Toward more realistic simulations of astrophysical transients," *High-Energy Astro Journal Club*, University of Chicago, Apr. 2022
- *"Panning for gold: The formation of heavy elements," *Physics Colloquium*, Franklin and Marshall College, Apr. 2022
- *"Nuclear-MHD modeling of WD transients," *Astronomy Seminar*, University of Wisconsin– Madison (remote), Nov. 2020
- *"Jet-driven core-collapse supernovae as a candidate site for r-process nucleosynthesis," *Multi-Messenger astrophysics in the gravitational wave era*, YITP, Kyoto, Oct. 2019

Teaching

Dept. of Astrophysical Sciences, Princeton University
Assistant in Instruction & Guest Lecturer, "Black Holes," Spring 2023
Assistant in Instruction, "Topics in Modern Astronomy," Spring 2022
Assistant in Instruction, "Life in The Universe," Fall 2021
Assistant in Instruction, "Cosmology," Spring 2020
Assistant in Instruction, "The Universe," Spring 2019
Edna Mahan Correctional Facility, NJ (Raritan Valley Community College)
Head instructor, "Beginning Mathematics," Spring 2023
East Jersey State Prison, NJ (Raritan Valley Community College)
Head instructor, "Introductory Physics (with Lab)," Spring 2020
Head instructor, "Elementary Algebra," Fall 2019
Instructor, "Astronomy," Fall 2018
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, 2019–
Peer Reviewer, The Astrophysical Journal, 2018–
Research Project Leader, Warrior-Scholars Project (Princeton), 2022
Mentorship Committee Member, Dept. of Astrophysical Sciences, Princeton University, 2021-22
Graduate Student Mentor, Científico Latino, 2019
Executive Board Member, Princeton University Women in Physics, 2019-21
Co-founder, Graduate Student Representative, Climate Committee for Equity and Inclusion, Dept. of Astrophysical Sciences, Princeton University, 2018–21
Public observing volunteer, Peyton Observatory, 2018-19
Volunteer Astronomer, Public Programs Series, Lick Observatory, 2015-19
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