Dr. Goni Halevi

Northwestern University, CIERA
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Academic Positions

Illinois Institute of Technology, Lewis College of Science and Letters
Aug. 2024– present: Assistant Teaching Professor
Center for Interdisciplinary Exploration and Research in Astrophysics (CIERA), Northwestern University
Sept. 2023–Aug. 2024: CIERA Fellow

Education

Princeton University
PhD, Astrophysical Sciences, Aug. 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 computational astrophysics
Transient phenomena, black holes, neutron stars, nucleosynthesis, accretion, MHD

Awards & Fellowships

CIERA Postdoctoral Fellowship, Northwestern University, 2023-2026
Vera Rubin Postdoctoral Fellowship, University of California, Santa Cruz, 2023-2024
Graduate Student Fellowship (Math/Physics), Prison Teaching Initiative, 2020-23
(Inaugural) Annual Equity Prize, Princeton Astrophysical Sciences, 2022
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

Teaching

Northwestern University– Physics & Astronomy *(Grad Courses)*
Invited Guest Lecturer, "Advanced Topics: Supermassive Black Holes," 2024
Princeton University– Astrophysical Sciences *(Undergraduate Courses)*
Assistant in Instruction & Invited Guest Lecturer, "Black Holes," 2023
Assistant in Instruction, "Topics in Modern Astronomy," 2022
Assistant in Instruction, "Life in The Universe," 2021
Assistant in Instruction, "Cosmology," 2020
Assistant in Instruction, "The Universe," 2019
Prison Teaching Initiative *(Raritan Valley Community College Courses)*
Head instructor, "Beginning Mathematics," Edna Mahan Correctional Facility, 2023
Head instructor, "Introductory Physics (with Lab)," East Jersey State Prison, 2020
Head instructor, "Elementary Algebra," East Jersey State Prison, 2019
Instructor, "Astronomy (with lab)," East Jersey State Prison, 2018
UC Berkeley– Astronomy *(Undergraduate Courses)*
Student Instructor, "Introduction to Astrophysics II," 2016 & 2017
Student Instructor, "Introduction to General Astronomy," 2015 & 2016
Cambridge Center for International Research *(Advanced High School)*:
Teaching Assistant, "The Astrophysics of High-Density Objects," 2023
Warrior-Scholars Project *(Research Focused, College Prep)*:
Research Project Leader, "Modeling and Detecting Exoplanets," 2022

Mentorship

Formal research advising
Ayanna Mann (Howard undergrad, in progress)
Pavani Jairam (Northwestern grad student, in progress)
Belinda Wu (Princeton undergrad, resulted in publication)
Formal non-research mentorship
Northwestern (1 grad student), Princeton (3 undergrads, 2 grad students)
+ 10-20 informal mentoring relationships

Service

Admissions Committee, REACH Program, CIERA, Northwestern University, 2024
Admissions Committee, REU Program, CIERA, Northwestern University, 2024
Mentorship Action Team, CIERA, Northwestern University, 2023–
Mentorship Committee, Astrophysical Sciences, Princeton, 2021-22
LGBTQ+ Panel, APS Conference for Undergraduate Women in Physics (CUWiP), Temple University, 2020
Executive Board, Princeton University Women in Physics, 2019-21
Peer Reviewer, Monthly Notices of the Royal Astronomical Society, 2019–
Graduate Student Mentor, Científico Latino, 2019
Peer Reviewer, The Astrophysical Journal, 2018–
Co-founder, AstroJustice Discussion Group, Dept. of Astrophysical Sciences, Princeton University, 2018
Co-founder, Graduate Student Representative, Climate Committee for Equity and Inclusion, Dept. of Astrophysical Sciences, Princeton University, 2018-21
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, 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

Outreach

Volunteer, Astronomy Conversations, Adler Planetarium, Chicago, 2024–
Astronomy on Tap Speaker, Chicago, IL, 2023
Public Observing Volunteer, Peyton Observatory, 2018-19
Volunteer Astronomer, Public Programs Series, Lick Observatory, 2015-19

Selected Presentations
⋆= invited

Colloquiua & seminars
⋆ *TAPIR Seminar*, CalTech, Pasadena, CA, June 2024
⋆ *FLASH Seminar*, UC Santa Cruz, CA, Nov. 2023
⋆*GRAPPA Colloquium*, University of Amsterdam, NL, May 2023
⋆*THEA seminar*, Columbia, NYC, Dec. 2022
⋆*CIERA Theory Group Meeting*, Northwestern, IL, Oct. 2022
⋆*High-Energy Astro Journal Club*, U Chicago, IL, Apr. 2022
⋆*Physics Colloquium*, Franklin and Marshall College, PA, Apr. 2022
⋆*Astronomy Seminar*, UW Madison (remote), Nov. 2020
Workshops & conferences
⋆*Turbulence in the Universe*, KITP, UC Santa Barbara, CA, Feb. 2024
⋆*Modeling plasmas around black holes*, Lorentz Center, Leiden, NL, Sept. 2023
Microphysics in Computational Relativistic Astrophysics, ECT⋆, Trento, IT, Sept. 2023
⋆*Multi-messenger astro in the gravitational wave era*, YITP, Kyoto, JP, Oct. 2019

Publications 17 refereed co-authored publications (with 3 more in review), including 3 first-author publications, 1 of which is co-authored with an advisee (h-index = 10)
on ADS
on arXiv
on ORCID