

Goni Halevi

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Education	Princeton University Ph.D., Astrophysical Sciences, 2023 (expected) M.A., Astrophysical Sciences, 2019 University of California, Berkeley B.A., Physics & 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	Selected talks and seminars (* = 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 & 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

Selected Publications <i>Complete List:</i> <i>ADS/arXiv</i>	<p>Stahl, ..., Halevi, et al. (2019). “Lick Observatory Supernova Search Follow-Up Program: Photometry Data Release of 93 Type Ia Supernovae” (<i>MNRAS</i>)</p> <p>Halevi et al. (2019) “HSC-XD 52: An X-ray detected AGN in a low-mass galaxy at $z \sim 0.56$” (<i>ApJL</i>)</p> <p>de Jaeger, ..., Halevi, et al. (2019) “The Berkeley sample of Type II supernovae: BVRI light curves and spectroscopy of 55 SNe II” (<i>MNRAS</i>)</p> <p>Mösta, Roberts, Halevi, et al. (2018) “r-process Nucleosynthesis from Three-dimensional Magnetorotational Core-collapse Supernovae” (<i>ApJ</i>)</p> <p>de Jaeger, ..., Halevi, et al. (2018) “SN 2016esw: a luminous Type II supernova observed within the first day after the explosion” (<i>MNRAS</i>)</p> <p>Halevi & Mösta (2018) “r-Process nucleosynthesis from three-dimensional jet-driven core-collapse supernovae with magnetic misalignments” (<i>MNRAS</i>)</p>
Teaching	<p>East Jersey State Prison (Raritan Valley Community College)</p> <p>Head instructor, “Introductory Physics (with Lab)”, Spring 2020</p> <p>Head instructor, “Elementary Algebra”, Fall 2019</p> <p>Instructor, “Astronomy”, Fall 2018</p> <p>Dept. of Astrophysical Sciences, Princeton University</p> <p>Assistant in Instruction, “Topics in Modern Astronomy”, Spring 2022</p> <p>Assistant in Instruction, “Cosmology”, Spring 2020</p> <p>Assistant in Instruction, “The Universe”, Spring 2019</p> <p>Dept. of Astronomy, UC Berkeley</p> <p>Student instructor, “Introduction to Astrophysics II”, Spring 2016/2017</p> <p>Student instructor, “Introduction to General Astronomy”, Fall 2015/2016</p>
Outreach, Leadership, Service	<p><i>Peer Reviewer</i>, Monthly Notices of the Royal Astronomical Society, 2019–</p> <p><i>Peer Reviewer</i>, The Astrophysical Journal, 2018–</p> <p><i>Research Project Leader</i>, Warrior-Scholars Project (Princeton), 2022</p> <p><i>Mentorship Committee</i>, Dept. of Astrophysical Sciences, Princeton University, 2021–</p> <p><i>Graduate Student Mentor</i>, Científico Latino, 2019</p> <p><i>Executive Board Member</i>, Princeton University Women in Physics, 2019-2021</p> <p><i>Co-founder, Graduate Student Representative</i>, Climate Committee for Equity and Inclusion, Dept. of Astrophysical Sciences, Princeton University, 2018–2021</p> <p><i>Public observing volunteer</i>, Peyton Observatory, 2018-2019</p> <p><i>Volunteer Astronomer</i>, Public Programs Series, Lick Observatory, 2015-2019</p> <p><i>Co-founder, facilitator</i>, AstroJustice Discussion Group, UC Berkeley, 2015–17</p> <p><i>Undergraduate coordinator</i>, Society for Women in the Physical Sciences, UC Berkeley, 2015–17</p> <p><i>Co-founder, Organizing Committee Member</i>, Undergraduate Astronomy Society, UC Berkeley, 2015–17</p> <p><i>Vice president</i>, Society of Physics Students, UC Berkeley, 2015–16</p> <p><i>Outreach coordinator</i>, Society of Physics Students, UC Berkeley, 2014–15</p>