

# Yael Alush – CV

Racah Institute of Physics  
The Hebrew University of Jerusalem  
Edmond J. Safra Campus  
Jerusalem 9190401 Israel

Emails: [yael.alush@mail.huji.ac.il](mailto:yael.alush@mail.huji.ac.il), [alushslor@wisc.edu](mailto:alushslor@wisc.edu)  
Homepage: [www.yaelalush.com](http://www.yaelalush.com)  
Phone: +1 608 960 5820

EDUCATION	<b>PhD in Physics</b> , The Hebrew University of Jerusalem Thesis: <i>Dynamics and Transients in Galactic Centers: Laboratories for General Relativity</i> Advisor: Nicholas C. Stone	2021–
	<b>MSc in Physics</b> , The Hebrew University of Jerusalem Thesis: <i>Black Holes Testing General Relativity, Revisited</i> Advisor: Nicholas C. Stone	2019–2021
	<b>BSc in Applied Mathematics</b> , Bar-Ilan University Studied simultaneously with high school: “The Youth Gifted in Mathematics program”	2011–2014
TEACHING	<b>Teaching Assistant</b> , The Hebrew University of Jerusalem Physics 77101: Mechanics and Special relativity Physics 77401: Analytical Electrodynamics	2024–2025
	<b>Teaching Assistant</b> , The Hebrew University of Jerusalem Physics 77101: Second-year BSc lab course	2019–2024
PROFESSIONAL EXPERIENCE	<b>Full Stack Developer</b> , Intelligence Corps, IDF Developed microservices and web applications using Node.js, Angular, MSSQL, and ElasticSearch.	2016–2019
	<b>Automation Developer</b> , Intelligence Corps, IDF Developed .NET automation frameworks using Selenium. Designed CI plans and testing infrastructure using Bamboo.	2014–2016
PROFESSIONAL SERVICE	<b>ULTRASAT associate member</b>	2025–
HONORS & AWARDS	• Azrieli Fellowship <i>Awarded annually to 10 early PhD students in exact sciences across Israel.</i>	2024–
	• Dean list	2021

PUBLICATIONS	<p>a) Published:  <b>Alush, Y.</b>, &amp; Stone, N. C. (2025). “Late-Time Evolution of Magnetized Disks in Tidal Disruption Events”. <a href="#">ApJ 993 14.</a></p> <p><b>Alush, Y.</b>, &amp; Stone, N. C. (2022). “Revisiting Stellar Orbits and the Sgr A* Quadrupole Moment”. <a href="#">Physical Review D, 106(12), 123023.</a></p> <p>b) Submitted:  <b>Alush, Y.</b>, Stone, N. C., van Velzen, S. “How Flat is a Plateau? Evolution of Late-Time TDE Disks”. <a href="#">arXiv:2510.24696.</a></p> <p>c) Near Submission:  <b>Alush, Y.</b>, Stone, N. C., Hughes, S. A. “EMRIs in Kerr Spacetime: The Role of Inclination Diffusion”.</p>												
TALKS & POSTERS	<ul style="list-style-type: none"> <li>• KU Astro Seminar, online, Oct. 2025.</li> <li>• Loss Cones in Como, Como, Sep. 2025.</li> <li>• X-ray Quasi-Periodic Eruptions and Repeating Nuclear Transients, Madrid, Jun. 2025.</li> <li>• UW-Madison science seminar, Madison, Mar. 2025.</li> <li>• Leiden Observatory group meeting, online, Feb. 2024.</li> <li>• Bar Ilan astrophysics seminar, Ramat Gan, Nov. 2024.</li> <li>• Tidal Disruption Events and Nuclear Transients: Entering the Data-Rich Era, Heraklion, Sep. 2024.</li> <li>• AsCoS: Astrophysics &amp; Cosmology Student Conference, Tel Aviv, Aug. 2024.</li> <li>• GRAVITY, Fundamental Physics at the Galactic Centre Workshop, Porto, Dec. 2023.</li> <li>• CIERA seminar, The Northwestern University, Chicago, Aug. 2023.</li> <li>• MODEST-23, Chicago (poster), Aug. 2023.</li> <li>• Israel Physical Society (IPS) conference, Tel Aviv, Apr. 2023.</li> <li>• Ilan Ramon International Space Conference, Tel Aviv (poster), Feb. 2023.</li> <li>• Unsolved Astrophysics Problems, Jerusalem, (poster), Dec. 2022.</li> </ul>												
VOLUNTARY & OUTREACH	<table> <tr> <td>• Volunteered as an academic advisor in the Ramon SpaceLab program <i>Middle school students design experiments that are launched into space and conducted by ISS astronauts.</i></td> <td>2025</td> </tr> <tr> <td>• Talks with female bachelor’s students to encourage pursuit of higher studies</td> <td>2021–2024</td> </tr> <tr> <td>• Participated in the university rocketry club</td> <td>2023</td> </tr> <tr> <td>• Organized and participated in public outreach stargazing events</td> <td>2019–2021</td> </tr> <tr> <td>• Led a coding hackathon team for female high school students <i>My team won first place.</i></td> <td>2018</td> </tr> <tr> <td>• Volunteered as a mentor in SheCodes <i>Coding workshops for women.</i></td> <td>2016–2019</td> </tr> </table>	• Volunteered as an academic advisor in the Ramon SpaceLab program <i>Middle school students design experiments that are launched into space and conducted by ISS astronauts.</i>	2025	• Talks with female bachelor’s students to encourage pursuit of higher studies	2021–2024	• Participated in the university rocketry club	2023	• Organized and participated in public outreach stargazing events	2019–2021	• Led a coding hackathon team for female high school students <i>My team won first place.</i>	2018	• Volunteered as a mentor in SheCodes <i>Coding workshops for women.</i>	2016–2019
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