

# Curriculum Vitae

## Alon Gurman

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### CONTACT

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### EDUCATION

*Ph.D. in Physics and Astronomy*  
Tel Aviv University, Tel Aviv, Israel, Expected 2026

*B.Sc. in Mathematics and Physics*  
Tel Aviv University, Tel Aviv, Israel, Magna Cum Laude, 2016-2019

### PUBLICATIONS

**Gurman, A.**, Hu, C. Y., Grudic, M. Y., Steinwandel, U. P., Sternberg, A. “The GHOSDT Simulations: II. Missing Molecules in Simulations of a Self-Regulated Interstellar Medium”. *arXiv e-prints*, *arXiv:2507.16700* (2025).

**Gurman, A.**, Steinwandel, U. P., Hu, C. Y., Sternberg, A. “The GHOSDT Simulations - I. Magnetic Support in Gas Rich Disks”. *ApJ*, *984*, 142 (2025).

**Gurman, A.**, Hu, C. Y., Sternberg, A., van Dishoeck, E. F., “[CII] Emission in a Self-Regulated Interstellar Medium”. *ApJ*, *965*, 179 (2024).

Sternberg, A., Bialy, S., **Gurman, A.**, “HI in Molecular Clouds: Irradiation by FUV Plus Cosmic Rays”. *ApJ*, *960*, 8 (2024).

Sternberg, A., **Gurman, A.**, Bialy, S., “HI-to-H2 Transitions in Dust-free Interstellar Gas”. *ApJ*, *920*, 83 (2021).

### ACADEMIC HONORS

Tel Aviv University scholarship for excellence in teaching, 2024

Tel Aviv University scholarship for excellence in teaching and research, 2022

Tel Aviv University scholarship for outstanding academic performance in graduate studies, 2021

### SEMINAR TALKS

NY Area Galaxy Seminar, Center for Computational Astrophysics, New York, 2025  
University of Illinois Urbana-Champaign, Illinois, 2025  
CCA Coffee Talks, Flatiron Institute, New York, 2025  
Stars and Interstellar Medium group seminar, Center for Computational Astrophysics, Flatiron Institute, New York, NY, 2024  
Star Formation/ISM Rendezvous seminar, Princeton University, Princeton, NJ, 2024  
Astrophysics Seminar, Tel Aviv University, Tel Aviv, Israel, 2024  
Astrophysics Seminar, Technion – Israel Institute of Technology, Haifa, Israel, 2024  
Galaxy Formation Seminar, Center for Computational Astrophysics, New York, 2023

<b>CONFERENCE TALKS</b>	<p>Far-Infrared Fine-Structure Line Workshop, Winona, Minnesota, 2025</p> <p>VICO-CICO-CCA Cosmic Origins Workshop, Flatiron Institute, New York, 2024</p> <p>ASCOS - Astronomy and Cosmology Conference, Weizmann Institute of Science, Rehovot, Israel, 2024</p>
<b>TEACHING AND MENTORING</b>	<p>Teaching Assistant, Introduction to Astrophysics (physics final year), 2020-2025</p> <p>Teaching Assistant, 2nd year physics lab, 2020-2025</p> <p>Co-advisor, Matan Berkovich, Technion – Israel Institute of Technology, Haifa, Israel, 2025-present</p> <p>Mentor, Meduyakot program for women in exact sciences, Tel Aviv Univiersty, 2021</p>
<b>PROFESSIONAL EXPERIENCE</b>	<p>Reviewer in Training, Monthly Notices of the Royal Astronomical Society, 2023-present</p> <p>Research Assistant, MRI motion correction with Frydman Group, Weizmann Institute of Science, 2018-2019</p> <p>Professional Development for Teachers and Development of Teaching Materials, joint program by Tel Aviv University, Israeli Space Agency, and the Israeli Ministry of Education, 2021-2023</p>