# Curriculum Vitae Alon Gurman

### CONTACT

School of Physics and Astronomy, Tel Aviv University Tel Aviv, Israel

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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

Visiting Ph.D. Student

Center for Computational Astrophysics, Flatiron Institute, 2024-present

PUBLICATIONS Gurman, A., Sternberg, A., Bialy, A., Cochrane, R. K., Stern, J. "Molecular Hydrogen in High-redshift Damped Lyman-α Absorbers". arXiv e-prints, arXiv:2508.13080 (2025)

> 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

CONFERENCE **TALKS** 

Far-Infrared Fine-Structure Line Workshop, Winona, Minnesota, 2025

VICO-CICO-CCA Cosmic Origins Workshop, Flatiron Institute, New York, 2024 ASCOS - Astronomy and Cosmology Conference, Weizmann Institute of Science,

Rehovot, Israel, 2024

**TEACHING** 

Teaching Assistant, Introduction to Astrophysics (physics final year), 2020-2025

AND

Teaching Assistant, 2nd year physics lab, 2020-2025

**MENTORING** 

Co-advisor, Matan Berkovich, Technion – Israel Institute of Technology, Haifa, Israel,

2025-present

Mentor, Meduyakot program for women in exact sciences, Tel Aviv Unviersty, 2021

**EXPERIENCE** 

PROFESSIONAL Reviewer in Training, Monthly Notices of the Royal Astronomical Society, 2023-

present

Research Assistant, MRI motion correction with Frydman Group, Weizmann Insti-

tute of Science, 2018-2019

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

**CLIMBING** AND MOUN-**TAINEERING**  Traveled across the Middle East, Europe, and USA, climbing big walls at elite level such as El Capitan in Yosemite National Park CA, Mt. Hooker in the Wind River

Range WY, and Djebel Nasrani in Wadi Rum, Jordan