

# Curriculum Vitae Elad David

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## CONTACT INFORMATION

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## ACADEMIC STUDIES

**Weizmann Institute of Science**, Rehovot, Israel  
Ph.D., Planetary Science  
March 2023 - present  
Supervisor: Prof. Oded Aharonson  
Title of Ph.D. Thesis Proposal: "*The Bidirectional Reflectance of Martian CO<sub>2</sub> Ice from Remote Sensing Measurements*"

**Weizmann Institute of Science**, Rehovot, Israel  
M.Sc., Planetary Science  
September 2021 - March 2023  
Supervisor: Prof. Oded Aharonson  
Title of M.Sc. Thesis: "*The Effect of Ground Ice Redistribution on the Martian Paleo-CO<sub>2</sub> Cycle*"

**Hebrew University of Jerusalem**, Jerusalem, Israel  
B.Sc., Chemistry and Biology, *cum laude*  
September 2017 - August 2021  
"Etgar-Chemistry" and "Amirim-Natural Sciences" honors programs

## AWARDS, SCHOLARSHIPS AND ACHIEVEMENTS 2024

**Ramon Scholarship for Space-oriented Internships**  
Israel Space Agency  
2023  
Internship subject: basic analysis of geospatial data from the Mars Climate Sounder, PI: Prof. Paul Hayne, University of Boulder, Colorado  
Additionally, participated in the observational campaign of the occultation of asteroid (269) Justitia

**Prize for Incoming M.Sc. Students for Excellence in Undergraduate Studies**  
Maurizio Dwek Research School of Chemical Sciences, Weizmann Institute of Science  
2020

**Prize for Excellence in Undergraduate Studies for Intelligence Corps Alumni**  
Jacob Brandis Memorial Foundation  
2020

**"Amos de-Shalit" Summer School for Outstanding Undergraduate Students**  
Weizmann Institute of Science  
2019

**"Amirim-Natural Sciences" honors scholarship**  
Hebrew University of Jerusalem  
2018-2020  
Project subject: amyloid fibers in the bacterial extra-cellular matrix, PI: Dr. Liraz Chai, title: "*Isolation of Functional Amyloid Fibers from a Bacterial Biofilm*"

**Department of Genetics Grant for Summer Internships**  
Hebrew University of Jerusalem  
2018

Internship subject: effects of mutation on meiosis in *C.elegans*, PI: Dr. Yonatan Tzur

**Dean's list**

Hebrew University of Jerusalem  
2017-2018, 2019-2020

**PUBLICATIONS LIST** **The Effect of Ground Ice Redistribution on the Martian Paleo-CO<sub>2</sub> Cycle**

**E. David**, O. Aharonson, E. Vos, N. Schorghofer

Journal of Geophysical Research - Planets (*accepted, December 2024*)

**Size and Shape of (269) Justitia from the 2023 August 31 Stellar Occultation**

M.W. Buie, P. Hayne, H. Al-Mazmi, M. Landis, W. Bottke *et al.* (contributed as a co-author)

*In preparation, December 2024*

**CONFERENCE ORGANIZATION**

**13<sup>th</sup> Earth and Planetary Science Student Conference**

September 2022

Department of Earth and Planetary Science, Weizmann Institute of Science

Position: member of the organizing committee

**CONFERENCES**

**8<sup>th</sup> International Conference of Mars Polar Science and Exploration**

July 2024, Whitehorse, Canada

Oral presentation, "*The Bidirectional Reflectance of Seasonal CO<sub>2</sub> from MCS Measurements*"

**54<sup>th</sup> Lunar and Planetary Science Conference**

March 2023, Woodlands, Texas

Oral presentation, "*The Effect of Ground Ice Redistribution on the Martian Paleo-CO<sub>2</sub> Cycle*"

**7<sup>th</sup> Mars Atmosphere Modeling and Observations Workshop**

June 2022, Paris, France

Poster presentation, "*The Effect of Ground Ice Redistribution on the Martian Paleo-CO<sub>2</sub> Cycle*"

**53<sup>rd</sup> Lunar and Planetary Science Conference**

March 2022, Woodlands, Texas

Poster presentation, "*The Effect of Ground Ice Redistribution on the Martian Paleo-CO<sub>2</sub> Cycle*"

**EDUCATION EXPERIENCE**

**Davidson Institute of Science Education**

2021 - present

Chemistry, geology laboratory for high school students

Telescopic observations for general audience and students

**Intelligence Corps**

2015-2016

Instructor in basic intelligence course, personal mentorship and development of educational material

**VOLUNTEER EXPERIENCE**

**Davidson Institute of Science Education**

2024

Development of novel space-oriented educational programs (associated with the Ramon Scholarship for Space-related Educational Programs)

**“Atid” educational program**

2013-2014

Assistance in studies for underprivileged high school students (associated with military service)

**MILITARY SERVICE**

**Intelligence Corps**

2013-2016

Active reserve service