

Fadi Khatib

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[Homepage](#)

Curriculum Vitae

EDUCATION

- 2024– present **P.hD in Computer Science and Applied Mathematics**
Weizmann Institute of Science, Israel
Research Interests: Structure from Motion, Novel View Synthesis, Visual Localization, Image Matching
Advisor: Prof. Ronen Basri
- 2021–2024 **M.Sc. in Computer Science and Applied Mathematics**
Weizmann Institute of Science, Israel
Advisor: Prof. Ronen Basri
- 2018–2021 **B.Sc. in Computer Science**
University of Haifa, Israel
Honors: Summa cum laude
I was only 15 years old when I started studying for the degree as part of the Etgar program (challenge in Hebrew) for excellent high school students who study towards this degree concurrently with their high school studies.
- 2016–2020 **High School**
"Albashaer" High School of Science, Israel
Finished with highest honors.
Specialization includes: Computer Science, Scientific Computing, and Physics.

RESEARCH EXPERIENCE

- 2022–Present **M.Sc. and Ph.D. Candidate**, Weizmann Institute of Science.
Thesis: End-to-End Large-Scale Structure from Motion (SfM)
Developing a fast End-to-End method for Structure from Motion from uncalibrated collections of images.
Advisor: Prof. Ronen Basri
- Summer 2021 **Summer Research internship**, Weizmann Institute of Science.
3D Reconstruction of synthetic scenes.
Adapted and applied a state-of-the-art 3D reconstruction method on very challenging synthetic data.
Advisor: Prof. Ronen Basri
- 2021 **B.Sc Final Project**, University of Haifa.
Emotion Recognition from Hands Movements Project. **Grade: 100/100**
Developed classical and DL based methods for hands gestures detection, to be used for emotion recognition.
Advisor: Prof. Hagit Hel-Or
- 2020-2021 **Research Assistant**, University of Haifa.
Mapping Human Viral Proteins Project.
Worked on mapping human viral proteins, with the goal of revealing the relationship between different viruses by using computational biology methods and applying them to biological data.
Advisor: Prof. Rachel Kolodny

PUBLICATIONS

- **F. Khatib**, Y. Kasten, D. Moran, M. Galun, R. Basri. "[RESFM: Robust Equivariant Multiview Structure from Motion](#)." (Under Review, arXiv preprint (Preliminary version)), 2024.
- D. Moran, Y. Margalit, G. Trostianetsky, **F. Khatib**, M. Galun, R. Basri. "[Consensus Learning with Deep Sets for Essential Matrix Estimation](#)." Conference on Neural Information Processing Systems (NeurIPS), 2024.
- **F. Khatib**, Y. Margalit*, M. Galun, R. Basri. "[Leveraging Image Matching Toward End-to-End Relative Camera Pose Regression](#)." The German Conference on Pattern Recognition (GCPR), 2024, **Selected as Oral presentation**.

HONORS AND AWARDS

- The Council for Higher Education Fellowship for Outstanding Doctoral Students, 2024-2027.
- The Cornell, Maryland, Max Planck Pre-doctoral Research School, 2023.
- Yoel Meches Memorial Fellowship for Excellent Students, Weizmann Institute of Science, 2023.
- The Feinberg Graduate School Diversity Appreciation Certificate for Advancing Equality, Diversity, and Inclusion, Weizmann Institute of Science, 2023.
- Moshe Horovitz Memorial Fellowship for Excellent Students, Weizmann Institute of Science, 2022.
- Summa Cum Laude (B.Sc Computer Science), University of Haifa, 2022.
- The Council for Higher Education Scholarship for Outstanding Master Students, 2021-2023.
- [Young Weizmann Scholars Diversity and Excellence Program Scholarship](#), 2021.
- Akavia Scholarship for Outstanding Students at the Department of CS, University of Haifa, 2021.
- Dean Scholarship (Summa Cum Laude), University of Haifa, 2020.
- Akavia Scholarship for Outstanding Students at the Department of CS, University of Haifa, 2020.
- The 100 Most Outstanding Students Award at the National Mathematics Olympics, 2018.
- First Place at the "Moofet" National Mathematics Olympics, 2015.

TEACHING EXPERIENCE

Spring 2025	Teaching Assistant for the Multiple View Geometry for Computer Vision Applications course, Weizmann Institute of Science.
Winter 2023, 2024	Teaching Assistant for the Introduction to Computer Vision course, Weizmann Institute of Science.

EXTRACULAR PROJECTS

- 2019–2021 **"Galilee" Nano Satellite Project**, Ort Braude College.
I was the head of the "Galilee" nano satellite programming team, that high school students will develop it at Ort Braude College.
- 2017–2020 **"Ma'ale" Program**, Davidson - Weizmann Institute.
A program for outstanding Arab students in STEM. Each year included a project that combines programming and scientific research through developing simulations using Python.

ACADEMIC SERVICE

- Reviewer International Conference on Learning Representations, 2025.

VOLUNTEER WORK

- 2021–present **Diversity and Inclusion**, Weizmann Institute, Israel
Working closely with the diversity and inclusion office at the Weizmann Institute to help them with making the campus more diverse.
- 2019–2020 **Mentorship Program**, University of Haifa, Israel
Tutor for a first-year Arab CS students at University of Haifa.
- 2018–2019 **"Galilee Dreamers" Program**, Oranim College, Israel
- Volunteer in the youth movement for peace club in Oranim College.
 - Member of a school delegation to the United States, as part of the youth movement for peace club in Oranim College (cultural program).

LANGUAGES

- Arabic: Mother tongue English: Excellent Hebrew: Excellent