

Joseph Abi-Karam (he/him)

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Education

Bachelor of Science in Engineering Physics, Minor in Atmospheric Sciences

University of Illinois Urbana Champaign

August 2021 - Present (May 2025 Scheduled Graduation)

GPA: 3.71/4.00

Skills

- Python, Microsoft Excel, Word, Power Point.
 - Synoptic Weather Analysis
 - Project leadership/management
 - Social media management
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Work experience and research

Member of CDDS (Climate Dynamics and Data Science) Research Team

January 2022-Present

University of Illinois Urbana-Champaign, Department of Atmospheric Sciences

- Understanding the importance of climate science for the renewable energy industry through article readings and published research papers.

Assistant at the meteorology department of Beirut International Airport

March 2019

Beirut International Airport

- Read and analyzed meteorological maps and METAR observations
- Assisted the director in the making of the daily forecast
- Understood the interconnection between the meteorology department and the aviation department

Activities and leadership

Project Lead of Engineers Without Borders, Hopkins Park Team

January 2022-Present

University of Illinois Urbana-Champaign, Grainger Engineering

- Working on the design phase of the renovation of the Wastewater Treatment Plant of Hopkins Park, IL
- Insuring constant communication between the project's stakeholders and the Hopkins Park Team
- Organizing team meetings once a week and ensuring productive group work

Weather forecasting & climate research

September 2017 - present

Beirut, Lebanon

- Reading meteorological models (GFS, ECMWF, GEM) to build my own weather forecast
- Sharing my forecast on social media on a daily / weekly basis (WhatsApp Broadcast, @weather.lb Instagram Page)
- Studying and researching Lebanon's climates and microclimates using existing data
- Incorporating previous weather into Excel spreadsheets with reference to seasonal averages
- Participated in Lebanon Weather Forecast's seminars

Math volunteering tutoring

May 2020 - June 2021

Beirut, Lebanon

- Tutored younger students for their Brevet math exam (official exam in Lebanon before high school)
- Referred my students to the best online resources I could find for them to consolidate their knowledge.