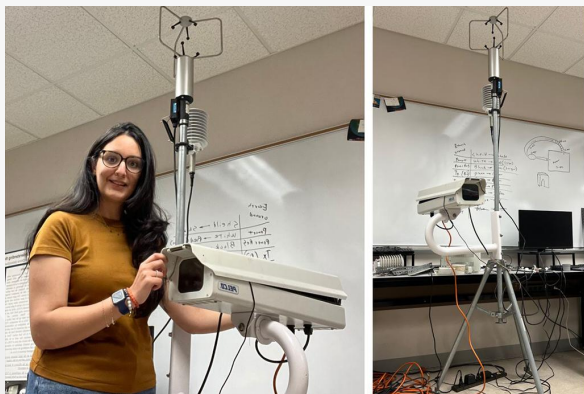


Who I Am & What I Do

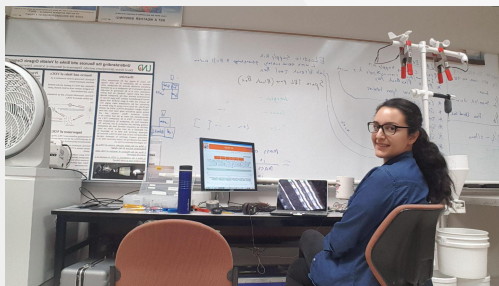


Marwa Majdi



Assistant Research Professor in Atmospheric Sciences (UND)

Focus/Research Interests: Atmospheric Aerosols, Fog & Cloud Microphysics, Weather Modification, Regional Modeling, Weather Forecasting, Weather for Uncrewed Aircraft Systems, Machine Learning for Weather Prediction

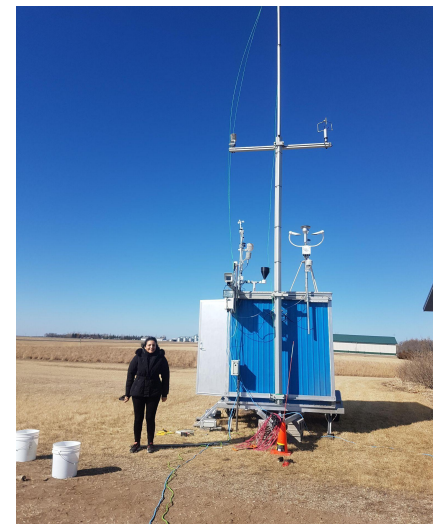


Contact me

Email: marwa.majdi@und.edu

Website: majdi.atmos.und.edu

Office: Clifford Hall 416



Current Projects



Weather Cameras Database

[About Weather Cameras Database](#)

[List of Cameras](#)

[Fog Events](#)



DATA SKILLS PATHWAY

- **Fog + Visibility from Cameras:** Use low-cost cameras and machine learning to estimate visibility and cloud ceiling in real time. Support aviation and drone/UAS operations. Build a Weather Camera Database (camera.atmos.und.edu) and a working ML prototype.
- **Hail + Cloud Seeding (Western North Dakota):** Compare seeded and unseeded storms using flight logs. Combine radar, satellite, and weather model (WRF) data. Use explainable AI to estimate hail impacts and evaluate the effectiveness of the summer cloud seeding operations.
- **Data Skills Pathway (AtSc 494):** Build real experience and stronger data skills by learning the full data workflow step-by-step, from raw data to a final result. Solve a real research problem through a mini research project, and leave with a clear product (plots + short report + code) you can show on a resume.



DATA SKILLS PATHWAY

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Contact: Dr. David Delene (david.delene@und.edu) | Dr. Marwa Majidi (marwa.majidi@und.edu)



DATA SKILLS PATHWAY

Interested? Contact me
Email: marwa.majdi@und.edu
Website: majdi.atmos.und.edu
Office: Clifford Hall 416




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