

Marwa Majdi

Assistant Research Professor | Atmospheric Sciences | University of North Dakota



Who I Am



Atmospheric scientist focused on applied weather research.



I combine observations, modeling, data analysis, and AI to solve real-world weather problems.



Passionate about turning complex weather data into practical tools that support safety and decision-making.



Research Interests



Fog and visibility monitoring and prediction



Hail events and weather modification operations assessment



Applied weather for UAS and AAM operations



AI/ML and WRF-based weather tools



VisSense Cam

VisSense Cam uses camera images to estimate visibility and identify low-visibility conditions such as fog, turning existing cameras into practical tools for visibility monitoring.



Weather Cameras Database: foundational camera archive supporting VisSense Cam development.



Role at UND



Assistant Research Professor in Atmospheric Sciences.



Lead and contribute to state and federal funded research projects.



Mentor students and support interdisciplinary collaboration.



Help students develop research ideas and write research proposals and grants.

Data Skills Pathway



A 15-week hands-on program that helps students build research and career-ready skills in data, coding, visualization, and AI.

Scan to learn more



Field observations



Sensor / camera systems



Interested? Contact me



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