IDENTIFYING INFORMATION:

NAME: Delene, David James

ORCID iD: https://orcid.org/0000-0002-3733-6021

POSITION TITLE: Research Professor and Aerospace Research Fellow

PRIMARY ORGANIZATION AND LOCATION: University of North Dakota, Department of Atmospheric Sciences, Grand Forks, ND, United States

Professional Preparation:

ORGANIZATION AND LOCATION	DEGREE (if applicable)	RECEIPT DATE	FIELD OF STUDY
University of Wyoming, Laramie, WY, United States	PHD	09/1995 - 12/1998	Atmospheric Sciences
Michigan Technological University, Houghton, MI, United States	MS	09/1993 - 08/1995	Geophysics
Michigan Technological University, Houghton, MI, United States	BS	09/1989 - 05/1993	Applied Physics

Appointments and Positions

2023 - present Research Professor and Aerospace Research Fellow, University of North Dakota, Department of Atmospheric Sciences, Grand Forks, ND, United States

2023 - present Aerospace Research Fellow, University of North Dakota, John D. Odegard School of Aerospace Sciences, Grand Forks, ND, United States

2019 - present Research Professor, University of North Dakota, Grand Forks, North Dakota, United States

2014 - present President, Open Science Associates, LLC, East Grand Forks, MN, United States

2011 - 2019 Associate Research Professor, University of North Dakota, Department of Atmospheric Sciences, Grand Forks, ND, United Statues

2002 - 2011 Assistant Research Professor, University of North Dakota, Department of Atmospheric Sciences, Grand Forks, ND, United States

2001 - 2002 Scientific Computing Research Associate, University of North Dakota, John D. Odegard School of Aerospace Sciences, Grand Forks, ND, United Status

1999 - 2001 Research Associate, Cooperative Institute for Research in Environmental Sciences, Boulder, CO, United Status

Products

Products Most Closely Related to the Proposed Project

1. Schmidt J, Flatau P, Harasti P, Yates R, Delene D, Gapp N, Kohri W, Vetter J, Nachamkin J, Parent M, Hoover J, Anderson M, Green S, Bennett J. Radar Detection of Individual Raindrops. Bulletin of the American Meteorological Society. 2019 December 01; 100(12):2433-2450. Available from: https://journals.ametsoc.org/bams/article/100/12/2433/344452/Radar-Detection-

of-Individual-Raindrops DOI: 10.1175/BAMS-D-18-0130.1

2. Gapp N, Delene D, Schmidt J, Harasti P. Comparison of Concurrent Radar and Aircraft Measurements in Florida Thunderstorm Cirrus Anvils. Journal of the Atmospheric Sciences. 2025 January 01; 82(aop):15-176. Available from: https://journals.ametsoc.org/view/journals/atsc/aop/JAS-D-24-0014.1/JAS-D-24-0014.1.xml DOI: 10.1175/JAS-D-24-0014.1
3. Delene D. Airborne data processing and analysis software package. Earth Science Informatics. 2011 March 01; 4(1):29-44. Available from: http://link.springer.com/article/10.1007/s12145-010-0061-4 DOI: 10.1007/s12145-010-0061-4
4. Skow A, Poellot M, Delene D, Askelson M, North K, Oue M. A Multi-Platform, In-Situ Kinematic and Microphysical Analysis of a Hybrid Parallel/Trailing Stratiform Mesoscale Convective System. Monthly Weather Review. 2022 February 01; -1(aop). Available from: https://journals.ametsoc.org/view/journals/mwre/aop/MWR-D-21-0009.1/MWR-D-21-0009.1.xml DOI: 10.1175/MWR-D-21-0009.1
5. Delene D, Hibert K, Poellot M, Brackin N. The North Dakota Citation Research Aircraft Measurement Platform. Warrendale, PA: www.sae.org; 2019 June. Available from: https://www.sae.org/publications/technical-papers/content/2019-01-1990/ isbn: 2019-01-1990

Other Significant Products, Whether or Not Related to the Proposed Project

1. Wagner SW, Delene DJ. Technique for comparison of backscatter coefficients derived from in-situ cloud probe measurements with concurrent airborne Lidar. Atmospheric Measurement Techniques. 2022 November 11; 15(21):6447-6466. Available from: https://doi.org/10.5194/amt-15-6447-2022
2. Gultepe E, Wang S, Blomquist B, Fernando H, Kreidl O, Delene D, Gultepe I. Machine learning analysis and nowcasting of marine fog visibility using FATIMA Grand Banks campaign measurements. Frontiers in Earth Science. 2024 February 07; 11. Available from: https://www.frontiersin.org/articles/10.3389/feart.2023.1321422 PMID: 2296-6463
3. Schima J, McFarquhar G, Delene D, Heymsfield A, Bansemer A, Schnaiter M, Finlon J, Järvinen E, Nehlert F. A Multi-Probe Automated Classification of Ice Crystal Habits During the IMPACTS Campaign. Journal of Geophysical Research: Atmospheres. 2024; 129(22):e2024JD040895. Available from: https://onlinelibrary.wiley.com/doi/abs/10.1029/2024JD040895 DOI: 10.1029/2024JD040895
4. Varcie M, Zaremba T, Rauber R, McFarquhar G, Finlon J, McMurdie L, Ryzhkov A, Schnaiter M, Järvinen E, Waitz F, Delene D, Poellot M, McLinden M, Janiszeski A. Precipitation Growth Processes in the Comma-Head Region of the 7 February 2020 Northeast Snowstorm: Results from IMPACTS. Journal of the Atmospheric Sciences. 2022 December 13; 80(1):3-29. Available from: https://journals.ametsoc.org/view/journals/atsc/80/1/JAS-D-22-0118.1.xml DOI: 10.1175/JAS-D-22-0118.1
5. Gupta S, McFarquhar G, O'Brien J, Poellot M, Delene D, Chang I, Gao L, Xu F, Redemann J. In situ and satellite-based estimates of cloud properties and aerosol–cloud interactions over the southeast Atlantic Ocean. Atmospheric Chemistry and Physics. 2022 October 07; 22(19):12923-12943. Available from: https://acp.copernicus.org/articles/22/12923/2022/ DOI: 10.5194/acp-22-12923-2022

Certification:

I certify that the information provided is current, accurate, and complete. This includes, but is not limited to, information related to current, pending, and other support (both foreign and domestic) as defined in 42 U.S.C. § 6605.

In accordance with Section 10632 of the CHIPS and Science Act of 2022 (42 U.S.C. § 19232), each individual identified as a senior/key person must certify that they are not a party to a malign foreign talent recruitment program.

Research Security Training Requirement for Federal Award Personnel: In accordance with Section 10634 of the CHIPS and Science Act of 2022 (42 U.S.C. § 19234), each individual identified as a senior/key person must certify that they have completed the requisite research security training that meets the requirements specified in Item 2 of Important Notice No. 149 within 12 months prior to proposal submission.

Certified by Delene, David James in SciENcv on 2026-05-25 13:02:40