Curriculum Vitae

Aaron M. Johnson

University of Michigan
Department of Climate and Space Sciences and Engineering
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EDUCATION:

PhD in Climate and Space Sciences, expected 2028 University of Michigan, Ann Arbor, MI
Current GPA: 4.00

MS in Climate and Space Sciences, Dec 2025 University of Michigan, Ann Arbor, MI
GPA: 4.00

BA in Physics, May 2023 Gustavus Adolphus College, St. Peter, MN
GPA: 3.96

PROFESSIONAL EXPERIENCE:

Graduate Student Research Assistant, Department of Climate and Space Sciences and Engineering (CLaSP), University of Michigan, Ann Arbor, MI (September 2023 - present). Advised by Drs. Mark Flanner and Christiane Jablonowski. Researching stratospheric dynamics processes and drivers using an earth system model (ESM).

PICASSO Scholar, CLaSP, University of Michigan, Ann Arbor, MI (Summer 2022). Worked with Dr. Michael Liemohn and Brian Swiger on a neural network model of electron flux in Earth's plasma sheet.

CONFERENCE PRESENTATIONS:

Johnson, A.M., Flanner, M.G., Jablonowski, C. (2025). Clarifying the Fate of Hunga Tonga Water Vapor with a Tagged Tracer Simulation. Poster presentation at the annual meeting of the American Geophysical Union, New Orleans, LA, December 2025

Johnson, A.M., Jablonowski, C., Flanner, M.G. (2024). Exploring the Drivers of the Quasi-Biennial Oscillation in a Changing Aquaplanet Climate. Oral presentation at the annual meeting of the American Geophysical Union, Washington, DC, December 2024.

Johnson, A.M., Liemohn, M., Swiger, B. (2022). Effects of Driving Parameter Filtering on SWPSNN Model Performance. Prepared for presentation at the annual meeting of the American Geophysical Union, Chicago, IL, December 2022.

AWARDS:

Outstanding Student Presentation Award, Atmospheric Sciences section, AGU annual meeting. (2024)

CLaSP Departmental Fellowship. Presented to first-year CLaSP graduate students with an excellent undergraduate record. Covers tuition and stipend. (2023)

John Borneman Prize *Par Excellence* in Mathematics. Presented annually to an outstanding student in the fields of mathematics and physics. (2022)

Presidential Scholarship. Top merit-based academic scholarship at Gustavus. (2019-2023)

Jussi Björling Music Scholarship. Top merit-based music scholarship at Gustavus. (2019-2023)

Dean's List. Requires a GPA of 3.7 or higher. (Every Semester)

National AP Scholar. Received scores of 4 or 5 on 10 Advanced Placement Exams (2019)

PROGRAMMING LANGUAGES:

Python, Fortran, TeX

OTHER COLLEGE ACHIEVEMENTS:

Section Leader, Gustavus Wind Orchestra (top auditioned wind band). Lead trumpet section rehearsals, plan section activities, and help maintain high standards of musicality. (September 2022– Present)

Principal Trumpet and Section Leader, Gustavus Symphony Orchestra (top auditioned orchestra). Lead trumpet section rehearsals and help maintain musicality and cohesiveness of the ensemble as a whole. (September 2022– Present)

Section Leader, Gustavus Jazz Ensemble (top auditioned jazz ensemble). Lead section rehearsals, help perfect section sound and articulations, and interpret myriad styles of jazz music. (September 2021– Present)

MEMBERSHIPS:

Sigma Pi Sigma, Nominated by physics faculty at Gustavus for membership in the national physics honor society, Sigma Pi Sigma (December 2022– Present)

OTHER WORK EXPERIENCE:

Customer Service Associate, Lowe's Home Improvement, Sioux Falls, SD. Aided in the smooth operation of the inside lawn and garden department, interacted frequently with customers and answered questions, organized and maintained merchandise, received freight when needed. (Summer 2021)

Sales Associate, Lewis Drug, Sioux Falls, SD. Helped manage the outdoor garden center, interacted frequently with customers, organized and maintained merchandise. (Summer 2019, Summer 2020)

Custodian, Gustavus Adolphus College, St. Peter, MN. As part of a small team, ensured the cleanliness of dorms across campus. (September 2019– March 2020)

LANGUAGES:

Intermediate German and Latin