

Connor Ayen Feltman

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EDUCATION

University of Iowa Ph. D., Physics (Expected Graduation: Spring 2024)	Iowa City, Iowa August 2018-present
University of Iowa M.S., Physics	Iowa City, Iowa December 2022
University of Wisconsin - Eau Claire B.A., Physics	Eau Claire, Wisconsin May 2018

RESEARCH

Department of Physics and Astronomy, University of Iowa Graduate Research Assistant Advisor(s): Dr. Craig A. Kletzing, Dr. Gregory Howes Specialization(s): Space Plasma Physics & Instrumentation	2018-present
<ul style="list-style-type: none">• Magnetosphere-ionosphere coupling mechanisms and their resulting currents at low altitudes.• Particle acceleration mechanisms and their effect on distribution functions within the auroral zone.• Instrumentation: Testing of Electron and Ion Electrostatic Analyzers, and analysis of Langmuir Probes from the ACESII Sounding Rocket campaign.	

TEACHING

Department of Physics and Astronomy, University of Iowa Graduate Teaching Assistant	
<ul style="list-style-type: none">• Classroom Laboratory Assistant - Tutor/assistant for the <i>Edge of Space</i> summer academy. Helped students built hardware to take low-altitude space physics measurements and present data. LINK HERE Summer 2022• Phys 1512 Discussion Instructor - Electric & magnetic fields, optics, and modern physics. Spring 2019, Spring 2020, Fall 2022• Phys 1511 Discussion Instructor - Mechanics, fluids, thermodynamics and waves. Fall 2018, Fall 2019• Phys 2704 Laboratory Instructor - Quantum mechanics, special relativity, atomic and solid state physics. Spring 2019• Phys 1511 Laboratory Instructor - Mechanics, fluids, thermodynamics and waves. Fall 2018, Spring 2019	

- **Department walk-in tutor** (Department Help Center)
Fall 2018, Spring 2019

Physics + Astronomy Department, University of Wisconsin - Eau Claire
Student Tutor

- **Department walk-in Tutor**
Spring 2016 - Spring 2018
- **University Tutor** (Academic Skills Center)
Spring 2016 - Spring 2018

HONORS

- Sigma Pi Sigma, National Physics Honor Society, 2018.
- Physics Beyond the Classroom Scholarship, 2017.

References

Professor Gregory Howes
Ph. D. thesis advisor and teaching reference

E-mail: gregory-howes@uiowa.edu
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Scott. R. Bounds, Ph.D.
Mentor and colleague

E-mail: scott-bounds@uiowa.edu
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Professor Allison N. Jaynes
Mentor and teaching reference

E-mail: allison-n-jaynes@uiowa.edu
Phone: +1 (319) 335-3799

PEER-REVIEWED PUBLICATIONS

***=primary author**

***=secondary contribution**

****=equal contribution**

*****=minor contribution**

*****Interferometric Study of Ionospheric Plasma Irregularities in Regions of Phase Scintillations and HF Backscatter**

Bounds, L. B. N. Clausen, F. Di Mare, C. A. Feltman, Y. Jin, C. A. Kletzing, W. J. Miloch, J. I. Moen, K. Oksavik, R. Sawyer, T. Takahashi, T. K. Yeoman
American Geophysical Union, 2022. <https://doi.org/10.1029/2021GL097013>

*****Modulated Upper-Hybrid Waves Coincident With Lower-Hybrid Waves in the Cusp**

C. Moser, J. LaBelle, R. Roglans, J. W. Bonnell, I. H. Cairns, C. Feltman, C. A. Kletzing, S. Bounds, R. P. Sawyer, S. A. Fuselier
American Geophysical Union, 2021

****Swarm Observations of Dawn/Dusk Asymmetries Between Pedersen Conductance in Upward and Downward Field-Aligned Current Regions**

L. Olfier, C. Feltman, R. Ghaffari, S. Henderson, D. Huyghbaert, J. Burchill, A. Jaynes, D. Knudsen, K. McWilliams, J. Moen, A. Spicher, J. Wu
American Geophysical Union, 2021.