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Associate Professor  
College of Charleston  
Department of Physics and Astronomy  
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## Education

- Doctor of Philosophy (Physics), August 2006  
Department of Physics, Michigan Technological University, Houghton, MI  
Thesis title: Studies of Discrete Fluctuations in Atmospheric Phenomena  
Thesis advisor: Dr. Alexander B. Kostinski  
Graduate GPA : 3.88
- Bachelor of Science (Physics), May 2001  
Department of Physics, Michigan Technological University, Houghton, MI  
GPA : 3.95 / Graduated *summa cum laude*

## Professional Employment

- College of Charleston, Charleston, SC  
Department of Physics and Astronomy  
Associate Professor (with Tenure), 2016-Present  
Assistant Professor, 2010-2016
- University of Nebraska at Kearney, Kearney, NE  
Department of Physics and Physical Science  
Assistant Professor, 2007-2010
- Army Research Laboratory, Adelphi, MD  
Battlefield Environment Division  
Consultant, 2007-2009  
National Research Council Postdoctoral Fellow, 2006-2007  
(Funded Proposal: Analysis of the Role of Number Fluctuations in an Apparatus to Detect Hazardous Airborne Particles)
- Michigan Technological University, Houghton, MI  
Department of Physics  
National Defense Science and Engineering Graduate Fellow, 2003-2006  
Graduate Research Assistant, 2002-2003  
Graduate Fellow, 2002

- NASA-Goddard Space Flight Center, Greenbelt, MD  
NASA-Goddard Earth Science and Technology Center  
Graduate Researcher in GSSP Summer Program, 2003  
(Project Title: A New Approach to Simulating a Realistic Spatial Structure of Cloud Droplets)

### **Funding Awarded**

Total Funding Awarded (After Post-Doc): \$755,546

- Sole PI 2015-2018 Meteorological Variability of the Two Dimensional/Temporal Structures of Drop Size Distributions and Rain. National Science Foundation(\$345,911)
- Sole PI 2015 Development of a Dense Rain Gauge Array at Dixie Plantation. College of Charleston Faculty Research & Development Grant (\$3,828)
- CoI 2014-2015 Quantifying Deviations from the Beer-Lambert-Bouguer Law in Uncorrelated Media in the Presence of Scattering. Connecticut Space Grant College Consortium (\$7,445)
- Sole PI 2012-2016 Characterization of the Two-dimensional/Temporal Mosaic of Drop Size Distributions and Spatial Variability (Structure) in Rain. National Science Foundation (\$325,402)
- Sole PI 2011-2012 Absorption and Scattering in Correlated Random Media. Research Corporation Cottrell College Science Award (\$35,000)
- Primary PI 2011-2012 Cloud Coverage as an Indicator of Regional Climate Change. South Carolina Space Grant Geospatial Institute for Students and Teachers in Climate Change (\$9,650)
- Sole PI 2010-2011 Turbulent Mixing of Aerosols. College of Charleston Faculty Research & Development Grant (\$3,310)
- Sole PI 2010 Characterization of Affordable Drop-by-Drop Rain Detection Instruments. NASA Space Grant Minigrant (\$10,000)
- Sole PI 2009-2010 Development of Precipitation Monitoring Systems for a Distributed Rain-Sensing Network. NASA Space Grant Minigrant (\$10,000)
- Sole PI 2009 NASA travel grant (\$1,000)
- Sole PI 2009 UNK Program of Excellence Funds for a 3D-Ultrasonic Anemometer (\$3,000)
- Sole PI 2008-2009 UNK Focused Assessment Grant (\$1,000)

## Peer-Reviewed Publications

Green names indicate undergraduate co-authors.

1. On the Relationship between Rainfall Intensity and Raindrop Velocity  
K. O'Dell, M.L. Larsen, and A.B. Kostinski  
*Journal of Geophysical Research: Atmospheres*, in preparation.
2. Sampling Variability Effects in Drop-Resolving Disdrometer Observations  
M.L. Larsen and K. O'Dell  
*Journal of Geophysical Research: Atmospheres*, 121, (2016).  
doi: 10.1002/2016JD025491
3. An Example of Persistent Microstructure in a Long Rain Event  
A.R. Jameson, M.L. Larsen, and A.B. Kostinski  
*Journal of Hydrometeorology*, 17, 1661–1673 (2016).  
doi: 10.1175/JHM-D-15-0180.1
4. Estimates of the Statistical Two-Dimensional Spatial Structure in Rain over a Small Network of Disdrometers  
A.R. Jameson and M.L. Larsen  
*Meteorology and Atmospheric Physics*. 128, 401–413 (2016).  
doi: 10.1007/s00703-016-0438-0
5. The Variability of Rainfall Rate as a Function of Area  
A.R. Jameson and M.L. Larsen  
*Journal of Geophysical Research: Atmospheres*, 121, (2016).  
doi: 10.1002/2015JD024126
6. Identifying Individual Rain Events with a Dense Disdrometer Network  
M.L. Larsen and J.B. Teves  
*Advances in Meteorology*, 2015, Article ID 582782, 12 pages (2015).  
doi: 10.1155/2015/582782
7. Disdrometer Network Observations of Finescale Spatial-Temporal Clustering in Rain  
A.R. Jameson, M.L. Larsen, and A.B. Kostinski  
*Journal of the Atmospheric Sciences*, 72(4), 1648–1666 (2015).  
doi:10.1175/JAS-D-14-0136.1
8. On the Variability of Drop Size Distributions over Areas  
A.R. Jameson, M.L. Larsen, and A.B. Kostinski  
*Journal of the Atmospheric Sciences*, 72(4), 1386–1397 (2015).  
doi: 10.1175/JAS-D-14-0258.1

9. Scaling properties of raindrop size distributions as measured by a dense array of optical disdrometers  
M.L. Larsen, [T.B. Hayward](#), and [J.B. Teves](#)  
*Journal of Hydrology*, 521, 424–432 (2015).  
doi: [10.1066/j.jhydrol.2014.12.016](https://doi.org/10.1066/j.jhydrol.2014.12.016)
10. Further evidence for super-terminal raindrops  
M.L. Larsen, A.B. Kostinski, and A.R. Jameson  
*Geophysical Research Letters*, 41(19), 6914–6918 (2014).  
doi: [10.1002/2014GL061397](https://doi.org/10.1002/2014GL061397)
11. On the Recovery of 3D Spatial Statistics of Particles from 1D Measurements: Implications for Airborne Instruments  
M.L. Larsen, [C.A. Briner](#), and [P. Boehner](#)  
*Journal of Atmospheric and Oceanic Technology*, 31(10), 2078–2087 (2014).  
doi: [10.1175/JTECH-D-14-00004.1](https://doi.org/10.1175/JTECH-D-14-00004.1)
12. On the link between particle size and deviations from the Beer-Lambert-Bouguer law for direct transmission  
M.L. Larsen and A.S. Clark  
*Journal of Quantitative Spectroscopy and Radiative Transfer*, 133, 646–651 (2014).  
doi: [10.1016/j.jqsrt.2013.10.001](https://doi.org/10.1016/j.jqsrt.2013.10.001)
13. Scale Localization of Cloud Particle Clustering Statistics  
M.L. Larsen  
*Journal of the Atmospheric Sciences*, 69 (11), 3277–3289 (2012).  
doi: [10.1175/JAS-D-12-02.1](https://doi.org/10.1175/JAS-D-12-02.1)
14. Identifying the scaling properties of rainfall accumulation as measured by a rain gauge network  
M.L. Larsen, A. Clark, [M. Noffke](#), [G. Saltzgaber](#), and [A. Steele](#)  
*Atmospheric Research*, 96, 149–158 (2010).  
doi: [10.1016/j.atmosres.2009.12.008](https://doi.org/10.1016/j.atmosres.2009.12.008)
15. Simple dead-time corrections for discrete time series of non-Poisson data  
M.L. Larsen and A.B. Kostinski  
*Measurement Science and Technology*, 20, 095101 (2009).  
doi: [10.1088/0957-0233/20/9/095101](https://doi.org/10.1088/0957-0233/20/9/095101)
16. Spatial Distributions of Aerosol Particles: Investigation of the Poisson Assumption  
M.L. Larsen  
*Journal of Aerosol Science*, 38 (8), 807–822 (2007).  
doi: [10.1016/j.jaerosci.2007.06.007](https://doi.org/10.1016/j.jaerosci.2007.06.007)

17. The texture of rain: Exploring stochastic micro-structure at small scales  
A.B. Kostinski, M.L. Larsen, and A.R. Jameson  
*Journal of Hydrology*, 328 (1-2), 38-45 (2006).  
doi: [10.1016/j.jhydrol.2005.11.035](https://doi.org/10.1016/j.jhydrol.2005.11.035)
18. Observations and Analysis of Uncorrelated Rain  
M.L. Larsen, A.B. Kostinski, and A. Tokay  
*Journal of the Atmospheric Sciences*, 62 (11), 4071-4083 (2005).  
doi: [10.1175/JAS3583.1](https://doi.org/10.1175/JAS3583.1)
19. Small-Scale Drop Size Variability: Impact on Estimation of Cloud Optical Properties  
Y. Knyazikhin, A. Marshak, M.L. Larsen, W.J. Wiscombe, J.V. Martonchik, and R.B. Myneni  
*Journal of the Atmospheric Sciences*, 62 (7), 2555-2567 (2005).  
doi: [10.1175/JAS3488.1](https://doi.org/10.1175/JAS3488.1)
20. Small-Scale Drop Size Variability: Empirical Models for Drop-Size-Dependent Clustering in Clouds  
A. Marshak, Y. Knyazikhin, M.L. Larsen, and W.J. Wiscombe  
*Journal of the Atmospheric Sciences*, 62 (2), 551-558 (2005).  
doi: [10.1175/JAS-3371.1](https://doi.org/10.1175/JAS-3371.1)
21. Response from Authors to Comment on Detection of Spatial Correlations among Aerosol Particles  
M.L. Larsen, W. Cantrell, A.B. Kostinski, and J. Kannosto  
*Aerosol Science and Technology*, 38 (2), 129-130 (2004).  
doi: [10.1080/02786820490250863](https://doi.org/10.1080/02786820490250863)
22. Detection of Spatial Correlations among Aerosol Particles  
M.L. Larsen, W. Cantrell, J. Kannosto, and A.B. Kostinski  
*Aerosol Science and Technology*, 37 (6), 476-485 (2003).  
doi: [10.1080/02786820390126402](https://doi.org/10.1080/02786820390126402)
23. Towards quantifying droplet clustering in clouds  
R.A. Shaw, A.B. Kostinski, and M.L. Larsen  
*Quarterly Journal of the Royal Meteorological Society*, 128 (582), 1043-1057 (2002).  
doi: [10.1256/003590002320373193](https://doi.org/10.1256/003590002320373193)

### (Nonreviewed) Books

1. Discrete Fluctuations in Atmospheric Physics: Theory, Models, and Empirical Observations (Ph.D. Dissertation Excerpt). M.L. Larsen  
218 pp., VDM Verlag Dr. Mueller e.K. (2008).
2. Investigations in Earth Science  
(Internal Lab/Activity Book for PHYS 201 (Earth Science) at University of Nebraska at Kearney)  
M.L. Larsen  
160 pp., Published In-House by UNK (2008).  
2nd Ed. 183 pp., Published In-House by UNK (2009).  
3rd Ed. 193 pp., Published In-House by UNK (2010).

### National/International Scientific Conference Presentations

Green names indicate undergraduate co-authors.

1. Development of a New Theoretical Framework for the Analysis of Disdrometer Data  
M.L. Larsen  
*17th International Conference on Clouds and Precipitation*. Manchester, UK. 25-29 July, 2016.
2. Investigating a New Disdrometer Sampling Method to Reduce Measurement Variability  
K. O'Dell and M.L. Larsen  
*17th International Conference on Clouds and Precipitation*. Manchester, UK. 25-29 July, 2016.
3. Statistical Assessment of Rainfall Properties over Varying Scales  
J.B. Teves and M.L. Larsen  
*17th International Conference on Clouds and Precipitation*. Manchester, UK. 25-29 July, 2016.
4. A Study of Realistic Sampling-Variability Effects on Precipitation Measurements  
K. O'Dell and M.L. Larsen  
*2015 Fall AGU Meeting*. San Francisco, CA. 14-18 December, 2015.
5. Novel Insights from Studying Raindrop Arrivals on Sub-Second Timescales  
M.L. Larsen and R. Lemasters  
*2015 Fall AGU Meeting*. San Francisco, CA. 14-18 December, 2015.
6. Resolving Airborne Particulate Concentration Inhomogeneities with a Schlieren Optical Technique  
A. Payne, A. Teklu, and M.L. Larsen  
*46th Annual Meeting of the APS Division of Atomic, Molecular, and Optical Physics*. Columbus, OH. 8-12 June, 2015.

7. Confirmation of the Existence of Super-Terminal Raindrops  
M.L. Larsen, A.B. Kostinski, and A.R. Jameson  
[2014 Fall AGU Meeting. San Francisco, CA. 15-19 December, 2014.](#)
8. Investigating the Dependence of Fractal Dimension on Raindrop Size for Drop Arrival Times as Measured by a Two-Dimensional Video Disdrometer  
R. Lemasters and M.L. Larsen  
[2014 Fall AGU Meeting. San Francisco, CA. 15-19 December, 2014.](#)
9. Self-Consistency of Rain Event Definitions  
J. Teves and M.L. Larsen  
[2014 Fall AGU Meeting. San Francisco, CA. 15-19 December, 2014.](#)
10. Parameters Governing Deviations from the Beer-Lambert-Bouguer Law for Direct Transmission  
A.S. Clark, M.L. Larsen, and J.B. Teves  
[14th AMS Conference on Atmospheric Radiation. Boston, MA. 7 - 11 July, 2014.](#)
11. Development of a Site to Investigate Rainfall Accumulation and Drop Size Distribution Variability on Small Spatio-Temporal Scales  
M.L. Larsen, J.C. Harris, R. Lemasters, K. O'Dell, and J. Teves  
[38th Annual Meeting of the National Weather Association. North Charleston, SC. 12-17 October 2013.](#)
12. Development of a ballistic photon transport model that explicitly resolves cloud microstructure  
M.L. Larsen, A. Clark, A. Steele, and D. Hayes.  
[13th AMS Conference on Cloud Physics, jointly with 11th AMS Conference on Atmospheric Radiation. Portland, OR. 28 June - 3 July, 2010.](#)
13. Examination of Sub-Pixel Accumulation Variability in Central Nebraska  
M.L. Larsen, A. Clark, M. Noffke, G. Saltzgaber, and A. Steele.  
[34th Conference on Radar Meteorology. Williamsburg, VA. 5-9 October, 2009.](#)
14. Direct Simulation of Radiative Transfer through a 3-Dimensional Correlated Medium  
M.L. Larsen, A. Clark, and A. Steele.  
[Gordon Research Conference on Radiation and Climate. Colby-Sawyer College. New London, NH. 5-10 July, 2009.](#)
15. Unresolved Small-Scale Optical Variability of Clouds: Two Ways of Assessing its Impact on Remote Sensing Observations and Energy Budget Estimations  
A.B. Davis, M.L. Larsen, and K. Pfeilsticker.  
[2006 Fall AGU Meeting. San Francisco, CA. 11-15 December, 2006.](#)

16. A New Model of Spatial Cloud Drop Distribution that Simulates the Observed Drop Clustering: Effect of clustering in Extinction Coefficient Estimates  
A. Marshak, Y. Knyazikhin, M.L. Larsen, and W. Wiscombe.  
[2006 Fall AGU Meeting. San Francisco, CA. 11-15 December, 2006.](#)
17. Impact of Unresolved, Correlated, or Anti-Correlated Spatial Structure on the Bulk Transport of Radiation Inside and Between Clouds, with Applications to Remote Sensing and Energy Budgeting  
A.B. Davis, M.L. Larsen, and M.K. Dubey.  
*2nd International Conference on Global Warming and the Next Ice Age. Sante Fe, New Mexico. 17-21 July, 2006.*
18. A New Model of Cloud Drop Distribution that Simulates the Observed Drop Clustering: Effects of Clustering on Extinction Coefficient Estimates  
Y. Knyazikhin, A. Marshak, M.L. Larsen, and W.J. Wiscombe.  
*16th Annual Meeting of the ARM Science Team. Albuquerque, New Mexico. 27-31 March, 2006.*
19. Reconsideration of Certain Aspects of the Z-R Problem  
M.L. Larsen and A.B. Kostinski.  
*14th International Conference on Cloud Physics and Precipitation – ICCP 2004. Bologna, Italy. 13-18 July, 2004.*
20. Being Discrete in a Crowd: Detection and Implications of Aerosol Clustering  
M.L. Larsen  
*JCET Radiation Focus Group Seminar, Climate and Radiation Branch Seminar Greenbelt, MD. 23 July 2003.*
21. Exploring the Stochastic Micro-structure of Rain: Scale Dependence of Spatial Correlations  
A.B. Kostinski, A.R. Jameson, and M.L. Larsen.  
*17th Conference on Hydrology. 83rd Annual Meeting of the American Meteorological Society. Long Beach, California. 9-13 February, 2003.*
22. Spatial Correlations among Aerosol Particles  
W. Cantrell, A.B. Kostinski, M.L. Larsen, and D. Harrington.  
[2002 Fall Meeting of the American Geophysical Union. San Francisco, California. 6-10 December, 2002.](#)
23. Stochastic Micro-structure of Rain and Scale Dependence of Spatial Correlations  
A.B. Kostinski, A.R. Jameson, and M.L. Larsen.  
[2002 Fall Meeting of the American Geophysical Union. San Francisco, California. 6-10 December, 2002.](#)



24. Possible Implications of Droplet Clustering for Radiative Transfer in Clouds  
A.B. Kostinski, M.L. Larsen, and R.A. Shaw.  
*11th AMS Conference on Cloud Physics, jointly with 11th AMS Conference on Atmospheric Radiation.* Ogden, Utah. 3-7 June, 2002.
25. Quantifying Droplet Clustering in Clouds  
M.L. Larsen, A.B. Kostinski, and R.A. Shaw.  
*11th AMS Conference on Cloud Physics.* Ogden, Utah. 3-7 June, 2002.

#### **Local/Regional Scientific Presentations and Workshops**

1. Explorations of Raindrop Size Distribution Variability using a Dense Disdrometer Array  
M.L. Larsen  
*College of Charleston, Department of Physics and Astronomy Colloquium.* College of Charleston. Charleston, SC. 2 October, 2014.
2. Spatial Statistics through a 1-D Lens  
M.L. Larsen  
*2012 Annual Meeting of the South Carolina Academy of Science.* University of South Carolina-Aiken. Aiken SC. 13 April, 2012.
3. Characterizing Rainfall Variability on Small Spatial and Temporal Scales  
M.L. Larsen  
*10th Annual Turkey Creek Watershed Initiative meeting. 5th Eco-Hydrologic Monitoring meeting.* College of Charleston. Charleston, SC. 22 April, 2011.
4. Identification and Characterization of Small-Scale Rainfall Fluctuations  
M.L. Larsen  
*2011 Annual Meeting of the South Carolina Academy of Science.* South Carolina State University. Orangeburg, SC. 16 April, 2011.
5. Physics within the Pixel – Rainfall Variability on Unresolved Scales  
M.L. Larsen  
*17th Annual Mini-Technical Conference of the Palmetto Chapter of the American Meteorological Society.* Columbia, SC. 24 March, 2011.
6. Affordable Ways of Measuring Rain One Drop at a Time  
M.L. Larsen  
*120th Annual Meeting of the Nebraska Academy of Sciences.* Nebraska Wesleyan University. Lincoln, NE. 23 April, 2010.
7. Developing an Undergrad Research Program from Scratch: Perspective from Two Physicists  
M.L. Larsen and L. Kreminska  
*Research at Primarily Undergraduate Institutions.* University of Nebraska at Kearney. Kearney, NE. 6 March, 2009.

8. Have you been discrete enough? Describing where aerosol particles are and where they are not

M.L. Larsen

*Remote Sensing Institute Seminar.* Michigan Technological University. Houghton, MI. 17 March, 2008.

9. Spatial Statistics in Atmospheric Microphysics: An Introduction with Applications

M.L. Larsen

*SciMath Colloquium.* Kearney, NE. 11 October, 2007.

## Courses Taught

### ➤ Introductory Level

- Earth Science<sup>†</sup> (F2007, F2008, S2009, F2009, S2010)
- General Physics I (Calculus Based) (F2016)
- General Physics II Lab (Calculus Based) (F2010, S2011)
- Honors Earth Science<sup>†</sup> (F2007, F2008, S2009, F2009, S2010)
- Honors Physics I (Calculus Based) (F2015)
- Honors Physics I Lab (Calculus Based) (F2015)
- Honors Physics II (Calculus Based) (S2016)
- Honors Physics II Lab (Calculus Based) (S2016)
- Introductory Physics II (Algebra Based) (F2010, S2011, F2011)
- Introductory Physics II Lab (Algebra Based) (S2011, F2011, S2012, F2013, S2014)
- Meteorology<sup>†</sup> (S2008, S2009, S2010)
- Physical Science (F2007, S2008, F2008, S2009)
- Physics of Sound and Music<sup>†</sup> (S2012, S2014)
- Physics of Sports<sup>†</sup> (S2013, F2014)

### ➤ Intermediate/Advanced Level

- Atmospheric Physics<sup>†</sup> (F2010, F2012, F2014, F2016)
- Classical Mechanics (S2013, S2014, S2015, S2017)
- Computers in Physics<sup>†</sup> (S2010)
- Electricity and Magnetism I (F2012, F2013)
- Mathematical Methods in Physics/Methods of Applied Physics<sup>†</sup> (F2012, F2013, F2014)
- Modern Physics (F2009, S2012, F2015, S2017)
- Physics Problem Solving<sup>†</sup> (S2009, F2009, F2011, F2012, F2014, F2015, F2016)
- Research Seminar (S2013, S2014, S2015, S2016, S2017)

† = Courses that were either designed or substantially modified by Michael Larsen.

**Mentoring of Undergraduate Research**

Name and Dates(*)(+)	Peer-Reviewed Journal Coauthorships	Professional Conference Coauthorships	Senior Capstone Project	Student Research Presentations
Tobin Barrett, 2011-13	0	0	Yes	1
Josh Beck(+), 2009-10	0	0	N/A	2
Philip Boehner(+), 2010-12	1	0	Yes	6
Clarissa Briner(*), 2012	1	0	No	2
Susanna Brylawski, 2011-13	0	0	No	0
Kensley Burriss(+), 2015-2016	0	0	No	1
Dawn Carillo, 2008-10	0	0	N/A	0
Jose Carillo, 2008-10	0	0	N/A	0
Michael Chute, 2012-13	0	0	Yes	2
Erin Deck(+), 2011	0	0	No	1
Benjamin Fullerton(+), 2009-10	0	0	N/A	4
Joerael Harris, 2011-14	0	1	Yes	4
David Hayes(+), 2009-10	0	1	N/A	1
Timothy Hayward(*), 2013-14	1	0	No	3
Cassidy Jenks, 2013-14	0	0	Yes	2
Robert Lemasters(+)(+), 2013-15	0	3	Yes	3
Kyle McClary (Smydra)(+), 2008-10	0	0	N/A	6
Joshua Moravec(+), 2010	0	0	N/A	0
(Dr.) Joseph Niehaus, 2010-11	0	0	No	1
Matthew Noffke(+)(+), 2008-10	1	1	N/A	7
Kate O'Dell(+)(+), 2012-2016	1+1 in prep	3	Yes	13
Linsey Passarella, 2016	0	0	No	1
Alexis Payne(+)(+), 2013-15	0	1	Yes	2
Danielle Policarpio(+), 2009-10	0	0	N/A	1
David Ruwadi(+), 2011	0	0	No	1
Grant Saltzgaber(+), 2007-10	1	1	N/A	7
Adrian Sanabria-Diaz(+), 2009-10	0	0	N/A	0
Cameron Self, 2010-11	0	0	Yes	1
Jenn Smaroff, 2010-11	0	0	No	0
Conor Smith, 2010-11	0	0	Yes	2
(Dr.) Aaron Steele(+), 2008-09	1	3	N/A	4
Patricia (Annie) Steele, 2013-14	0	0	No	0
Jeremy Stromer(+), 2009	0	0	N/A	3
Joshua Teves(+), 2012-2016	2	4	Yes	11
Derek Tuck, 2014-15	0	0	Yes	2
<b>Totals</b> 35 (22 CofC, 13 UNK)	9 + 1 in Prep	18	12	94

Note: Some publications had multiple student authors and are thus multiply counted above.

(\*) indicates student won at least one research presentation award.

(+) indicates student won at least one funding award.

## Student Funding and Awards

- Department of Physics and Astronomy Summer Undergraduate Research Funding Award 2016 (Kensley Burriss)
- Department of Physics and Astronomy Outstanding Undergraduate Research Award 2016 (Katelyn O'Dell)
- Department of Physics and Astronomy Outstanding Graduate Award 2016 (Katelyn O'Dell); 2015 (Robert Lemasters)
- College of Charleston Chapter of  $\Phi\kappa\Phi$  Undergraduate Research and Creative Works Award 2016 (Joshua Teves; Honorable Mention)
- Awards for College of Charleston School of Science and Math Poster Session 2016 Physics 1st Place (Joshua Teves); 2015 Physics 1st Place (Alexis Payne); 2012 Award of Merit (Clarissa Briner)
- NASA Space Grant Undergraduate Student Fellowship 2015-2016 (Joshua Teves); 2010 (Kyle McClary); 2009 (Grant Saltzgaber)
- Horatio Hughes Academic Year Award 2015-2016; 2014-2015 (Joshua Teves)
- $\Sigma\Xi$  Award for Outstanding Student Research at the South Carolina Academy of Science Annual Meeting 2015 Earth Sciences, 1st Place (Kate O'Dell); 2015 Physics, 1st Place (Robert Lemasters); 2014 Physics, 1st Place (Timothy Hayward)
- College of Charleston Research Presentation Grant 2015 (Katelyn O'Dell); 2014 (Robert Lemasters); 2014 (Joshua Teves)
- Harry Ricker, Jr. Endowed Award 2014-2015 (Katelyn O'Dell)
- CofC Major Academic Year Support Research (MAYS) 2014-2015 (Alexis Payne); 2011-2012 and 2010-2011 (Philip Boehner)
- Horatio Hughes Summer Research Award 2013 (Katelyn O'Dell)
- NASA Space Grant Students and Teachers in Climate Change Participants. 2011 (Erin Deck); 2011 (David Ruwadi)
- UNK Summer Student Research Program (SSRP) 2010 (Joshua Moravec); 2009 (Kyle McClary); 2009 (Jeremy Stromer); 2008 (Matthew Noffke)

**Student Funding and Awards (Continued)**

- NASA Space Grant Student Researchers  
2009-2010 (Ben Fullerton); 2009-2010 (Kyle McClary)
  
- UNK Undergraduate Research Fellows  
2009-2010 (Josh Beck); 2009-2010 (Matthew Noffke); 2009-2010 (Danielle Policarpio); 2009-2010 (Kyle McClary); 2009-2010 (Ben Fullerton); 2009-2010 (David Hayes); 2009-2010 (Joshua Moravec); 2009-2010 (Adrian Sanabria-Diaz); 2008-2009 (Matthew Noffke); 2008-2009 (Grant Saltzgaber); 2008-2009 (Aaron Steele)
  
- Best Undergraduate Student Paper at the 12th Annual High Plains Conference of the NWA/AMS  
2008 (Matthew Noffke)

## Professional Service

### ➤ Service to the Public and the Scientific Community at large:

- Serves/served as peer-reviewer for 19 journals/funding agencies: *Advances in Water Research*, *Aerosol Science and Technology*, *Applied Spectroscopy*, *Atmospheric Measurement Techniques*, *Geophysical Research Letters*, *IEEE Communications Letters*, *Journal of Applied Meteorology and Climatology*, *Journal of Atmospheric and Oceanic Technology*, *Journal of Atmospheric and Solar-Terrestrial Physics*, *Journal of Geophysical Research – Atmospheres*, *Journal of Hydrology*, *Journal of Hydrometeorology*, *Journal of the Atmospheric Sciences*, *Journal of Scientific Research and Reports*, *Nonlinear Processes in Geophysics*, *Quarterly Journal of the Royal Meteorological Society*, *Quarterly Journal of Spectroscopy and Radiative Transfer*, *Water Resources Research*, and the National Science Foundation
- Regularly serves as judge for various science fairs.
- Regularly participates in a wide variety of departmental and Physics club outreach activities
- Consulted with local legal office in regards to identifying weather conditions for eyewitness testimony (2014).
- Consulted with local officials in reference to weather monitoring for Carriage Horse health issues (2011).

➤ **Institutional Service at the College of Charleston**

- Astrophysics Faculty Search Committee (2016-present)
- Departmental Tenure/Promotion Panel (2016-present)
- Physics Curriculum Committee (2016-present)
- Transfer Evaluator Physics (2013-present)
- Society of Physics Students Advisor / Sigma Pi Sigma Coordinator (2011-present)
- Meteorology/Atmospheric Physics Curriculum Committee (2010-present) [chair from 2011-2013]
- Transfer Evaluator Atmospheric Physics and Meteorology (2010-present)
- Academic Advisor for numerous students in Physics and Meteorology programs (2010-present)
- Masters of Environmental Studies Fellowship Reviewer (2016)
- Visiting Assistant Professor of Astronomy Search Committee (2016)
- Visiting Assistant Professor of Physics Search Committee (2016)
- Acting Physics Department Chair (2015 [July 13-July 17])
- Associate acting Physics Department Chair (2014 [July 16-August 8])
- Physics Department Resources and Awards Committee Member (2012-2015) [chair from 2014-2015]
- College-Wide Faculty Curriculum Committee Member (2014-2015)
- Summer Undergraduate Research with Faculty (SURF) Reviewer (2014,2012)
- Air Quality Faculty Search Committee (2013-2014)
- Atmospheric Physics Faculty Search Committee (2012-2013)
- Air Quality Faculty Search Committee (2012-2013)
- UCAR Affiliate Representative for CofC (2011-2013)
- Atmospheric Physics Faculty Search Committee (2011-2012)
- Atmospheric Physics Faculty Search Committee (2010-2011)
- Meteorology Program Coordinator (2010-2011)
- Colloquium Committee (2010-2011)