

Danielle Groenen, Ph.D.

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EDUCATION

Ph.D., Meteorology , Florida State University, Tallahassee, FL	Aug 2019
M.S., Atmospheric Science , University of California, Davis, CA	Dec 2009
B.S., Physics , University of York, UK	July 2006

RESEARCH/SCIENCE EXPERIENCE

Senior Research Scientist, Hampton, VA Aug 2019 - present
Science Systems and Applications, Inc. (SSAI)
Atmospheric Science Data Center (ASDC) at NASA Langley Research Center
Supervisor: Lindsay Parker

Graduate Research Assistant, Florida State University, FL Mar 2014 - June 2019
Ph.D. Dissertation Title: *Diagnosing the Atmospheric Phenomena Associated with the Onset and Demise of the Rainy Season in Mesoamerica*
Advisor: Dr. Mark Bourassa

Internships at NASA/JPL, Pasadena, CA Summer 2014 & 2016
Advisors: Drs. Huikyo Lee, Paul Loikith, and Duane Waliser

Graduate Student Researcher, U.C. Davis, CA Sept 2007 - Sept 2009
Master's Thesis Title: *Study of Cloud Tilting Properties using 2-D Cloud Simulations*
Advisor: Dr. Shu-hua Chen

PUBLICATIONS

Groenen, D., 2018: The Effects of Climate Change on the Pests and Diseases of Coffee Crops in Mesoamerica. *J. Climatol. Weather Forecasting*, **6: 239**. doi:10.4172/2332-2594.1000239

Misra, V., **D. Groenen**, A. Bharadwaj, and A. Mishra, 2016: The warm pool variability of the tropical northeast Pacific. *Int. J. Climatol.*, **36 (14): 4625–4637**, doi:10.1002/joc.4658

HONORS, AWARDS AND CERTIFICATES

- Yale School of Public Health's Climate Change and Health Certificate Program (2019) → Part of the inaugural cohort
- NASA Earth and Space Science Fellow (NESSF), 2015-2018
 - Project Title: *Mid-Summer Droughts Amidst Landfalling Tropical Cyclones and Atmospheric Rivers*
- Professional Teaching Certification in Florida covering Physics (6-12) (valid from 2010-2017)

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TEACHING EXPERIENCE

Instructor, Florida State University, Tallahassee, FL Aug 2013 - Apr 2014
Introduction to the Atmosphere lecture section (42 students) in Fall 2013
Introductory Meteorology lab section (23 students) in Spring 2014

Outreach Specialist, Deep-C Consortium, Tallahassee, FL Aug 2013 - Mar 2014
Developed curriculum for brand new citizen science initiative called Project GOO (Gulf Oil Observers), and implemented lessons in the high school classroom to teach students how to look for oil patties along Gulf beaches, in collaboration with Woods Hole Oceanographic Institution (WHOI)

Physics Teacher, Academy of the Holy Names, Tampa, FL Aug 2011 - June 2013
1 class of Physics Honors at 9th grade level
4 classes of Physics College Prep at 9th grade level

Physics Teacher, Howard W. Blake High School, Tampa, FL Aug 2010 - June 2011
3 classes of Physical Science at 10th grade level
2 classes of Physics Honors at 11th and 12th grade levels
1 class of AP Physics B at 11th and 12th grade levels

Math and Physics Tutor Nov 2009 - Dec 2012
Private tutor for junior high, high school and college students in Geometry, Algebra I and II, Trigonometry, SAT Math, and Physics

Teaching Assistant, U.C. Davis, CA Jan - March 2009
Global Climate Change lecture section (100 students)

- Graded weekly quizzes and exams, held office hours

PROFESSIONAL MEMBERSHIPS

- American Geophysical Union (2007-present)
- FSU Fellows Society (2016-present)
- Chi Epsilon Pi, Meteorology Honors Society (2014-present)
 - President-Elect 2015-2016

SKILLS

- Proficient in Microsoft Outlook, Word, PowerPoint, and Excel
- Proficient in Confluence, Wiki, and Jira tickets
- Familiar with SAFe/Agile Framework
- Proficient in the following programming languages: Python, Fortran, Matlab, GrADS, R Studio
- Beginner's knowledge of Esri ArcGIS Pro and StoryMaps
- Proficient in writing and editing scientific papers and extensive public speaking experience
- Fluent in English; Basic knowledge of French, Spanish, and Dutch