

Craig A. Ramseyer

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EDUCATION

University of Georgia <i>Doctor of Philosophy in Geography</i>	Athens, GA Aug. 2011 – May 2016
University of Georgia <i>Master of Science in Geography</i>	Athens, GA Aug. 2009 – Jul 2011
James Madison University <i>Bachelor of Science in Geographic Science, Cum Laude with Honors Distinction</i>	Harrisonburg, VA Aug. 2005 – May 2009

ACADEMIC APPOINTMENTS

Assistant Professor <i>Virginia Polytechnic Institute and State University, Department of Geography</i>	Aug 2019 – Present Blacksburg, VA
Assistant Professor <i>Salisbury University, Department of Geography and Geosciences</i>	Aug 2016 – May 2019 Salisbury, MD
Graduate Research Assistant <i>University of Georgia, Luquillo Long-Term Ecological Research Site</i>	Aug 2014 – May 2016 Athens, GA
Graduate Teaching Assistant Coordinator <i>University of Georgia, Department of Geography</i>	Aug 2011 – May 2012 Athens, GA

PUBLICATIONS

- Miller, P.W. and **C. A. Ramseyer** (2020). “Did the Climate Forecast System anticipate the 2015 Caribbean drought?” In: *Journal of Hydrometeorology* 21, pp. 1245–1258. DOI: 10.1175/JHM-D-19-0284.1.
- Ramseyer, C.A.**, T.L. Mote, and P.W. Miller (2019). “Future Precipitation Variability during the Early Rainfall Season in the El Yunque National Forest”. In: *Science of the Total Environment* 661, pp. 326–336. DOI: 10.1016/j.scitotenv.2019.01.167.
- Miller, P.W., T.L. Mote, and **C.A. Ramseyer** (2019). “An empirical study of the relationship between seasonal precipitation and thermodynamic environment in Puerto Rico”. In: *Weather and Forecasting* 34, pp. 277–288. DOI: 10.1175/WAF-D-18-0127.1.
- Ramseyer, C.A.** and T.L. Mote (2018). “Empirical Downscaling of Historical Rainfall in Northeast Puerto Rico using Self-Organizing Maps”. In: *International Journal of Climatology* 38, e334–e236. DOI: 10.1002/joc.5364.
- Miller, P.W., T.L. Mote, **C.A. Ramseyer**, A.E. Van Beusekom, M.A. Scholl, and G. Gonzalez (2018a). “A 42-yr Inference of Cloud Base Height Trends in the Luquillo Mountains of Northeastern Puerto Rico”. In: *Climate Research* 76, pp. 87–94. DOI: 10.3354/cr01529.
- Mote, T.L., **C.A. Ramseyer**, and P.W. Miller (2017). “The Saharan Air Layer as an Early Rainfall Season Suppressant in the Eastern Caribbean: The 2015 Puerto Rico Drought”. In: *Journal of Geophysical Research – Atmospheres* 122, pp. 10966–10982. DOI: 10.1002/2017JD026911.
- Mattingly, K.S., **C.A. Ramseyer**, J.J. Rosen, T.L. Mote, and R. Muthyala (2016). “Increasing water vapor transport to the Greenland Ice Sheet revealed using Self-Organizing Maps”. In: *Geophysical Research Letters* 43, pp. 9250–9258. DOI: 10.1002/2016GL070424.
- Ramseyer, C.A.** and T.L. Mote (2016a). “Atmospheric Controls on Puerto Rico precipitation using Artificial Neural Networks”. In: *Climate Dynamics* 47, pp. 2515–2526. DOI: 10.1007/s00382-016-2980-3.
- Gensini, V. A., **C.A. Ramseyer**, and T.L. Mote (2014). “Future convective environments using NARCCAP”. In: *International Journal of Climatology* 34, pp. 1699–1705. DOI: doi:10.1002/joc.3769.
- Grundstein, A., **C.A. Ramseyer**, F. Zhao, J.L. Pesses, P. Akers, A. Qureshi, L. Becker, J.A. Knox, and M. Petro (2010). “Retrospective Analysis of American Football Hypothermia Deaths in the United States”. In: *International Journal of Biometeorology* 56, pp. 11–20. DOI: 10.1007/s00484-010-0391-4.

GRANT SUPPORT

NOAA Climate Program Office

Total: \$507,198; Virginia Tech \$154,367

Mote, T.L., P.W. Miller, C.A. Ramseyer (Co-PI), and G. Gonzalez

Aug 2020 – Jul 2023

- Understanding the Mechanisms Leading to Early Warning of Meteorological and Hydrological Drought in the U.S. Caribbean

Virginia Tech Office of the Executive Vice President and Provost

\$1500

Ramseyer, C.A.

Aug 2020 – Jul 2021

- New Faculty Mentoring Project Grant

National Science Foundation, Luquillo LTER

\$5000

Ramseyer, C.A. (Senior Consultant)

Aug 2017 – Jul 2018

- Future Precipitation Variability in the El Yunque National Forest

Salisbury University, Office of Graduate Studies and Research

\$3000

Ramseyer, C.A. (PI)

Aug 2017 – Jul 2018

- Regional Atmospheric Influences on Winter Precipitation Type on Delmarva Peninsula

CONFERENCE PRESENTATIONS

Miller, P.W. and **C.A. Ramseyer** (Jan. 2021). “Anticipating the 2015 Caribbean drought using the Climate Forecast System”. 101st Annual Meeting of the American Meteorological Society, Virtual Meeting.

Maier, K.J. and **C.A. Ramseyer** (Jan. 2020). “The CLOUDS of Climate Change: Climate objective Understanding and Dismissiveness Scale- Preliminary”. 2020 Annual Convention of the American Psychological Association, Washington, D.C.

Ramseyer, C.A. and P.W. Miller (Mar. 2019). “A Climatology of the Trade Wind Inversion in the Caribbean”. 115th American Association of Geographers Annual Meeting, Washington D.C.

Ramseyer, C.A. (Dec. 2018). “Statistical Downscaling of CMIP5 data to predict future dry day frequency in the El Yunque National Forest”. Annual American Geophysical Union Fall Meeting, Washington, D.C.

Magness, M. and **C.A. Ramseyer** (Apr. 2018). “Investigation and Analysis in to the Atmospheric Mechanisms that produced the Salisbury, Maryland Tornado”. 17th Annual Salisbury University Student Research Conference, Salisbury, MD.

Banks, A. and **C.A. Ramseyer** (Apr. 2018a). “Application of Self Organizing Maps to Winter Precipitation on the Delmarva Peninsula”. 17th Annual Salisbury University Student Research Conference, Salisbury, MD.

— (Apr. 2018b). “Application of Self Organizing Maps to Winter Precipitation on the Delmarva Peninsula”. 114th American Association of Geographers Annual Meeting, New Orleans, LA.

Ramseyer, C.A., T.L. Mote, and P.W. Miller (Apr. 2018). “Future Rainfall Variability during the Early Rainfall Season in Puerto Rico”. 114th American Association of Geographers Annual Meeting, New Orleans, LA.

Miller, P.W., T.L. Mote, **C.A. Ramseyer**, A.E. Van Beusekom, M.A. Scholl, and G. Gonzalez (Jan. 2018b). “A 42-yr Assessment of Cloud Base Height Trends in the Luquillo Mountains of Eastern Puerto Using Radiosonde Observations from San Juan”. 98th Annual Meeting of the American Meteorological Society, Austin, TX.

Ramseyer, C.A., T.L. Mote, and P.W. Miller (Apr. 2017). “On the Role of the Saharan Air Layer in the 2015 Puerto Rico Drought”. 113th American Association of Geographers Annual Meeting, Boston, MA.

Mote, T.L., **C.A. Ramseyer**, and P.W. Miller (Nov. 2016). “On the Role of the Saharan Air Layer in the 2015 Puerto Rico Drought”. 71st Southeastern Division of the American Association of Geographers Annual Meeting, Columbia, SC.

Ramseyer, C.A. and T.L. Mote (Apr. 2016b). “Climate Downscaling of CMIP5 GCM Simulations to northeast Puerto Rico Precipitation Variability and Drought”. 112th American Association of Geographers Annual Meeting, San Francisco, CA.

— (Jan. 2016c). “Historical Caribbean Synoptic types and Downscaling to Northeast Puerto Rico Precipitation Variability using Self-Organizing Maps”. 28th Conference on Climate Variability and Change, 96th American Meteorological Society Annual Meeting, New Orleans, LA.

— (Apr. 2015a). “Performance of Atmospheric Predictor Variables in Statistical Downscaling of Precipitation in Puerto Rico”. 111th American Association of Geographers Annual Meeting, Chicago, IL.

- Ramseyer, C.A.** and T.L. Mote (June 2015b). “Historical and Future Precipitation Variability in Northeast Puerto Rico”. Annual Meeting of the Luquillo LTER, International Institute of Tropical Forestry, San Juan, PR.
- Ramseyer, C.A.** (Apr. 2014). “Historical Precipitation Variability in Northeast Puerto Rico and Reconstruction of Synoptic Types”. 110th American Association of Geographers Annual Meeting, Tampa, FL,
- Ramseyer, C.A.**, J.A. Knox, J. Rackley, and A.W. Black (Jan. 2014). “Superstorm Sandy’s Social Media Surge in Twitter: A Three-Dimensional Analysis”. Superstorm Sandy and the Built Environment: New Perspectives, Opportunities, and Tools; 94th American Meteorological Society Annual Meeting, Atlanta, GA.
- Ramseyer, C.A.**, J. Wang Y. Vanexel, J.M. Shepherd, and J.A. Knox (Jan. 2014). “Analyzing U.S. fatalities from Superstorm Sandy using Socioeconomic and Exposure Metrics”. Superstorm Sandy and the Built Environment: New Perspectives, Opportunities, and Tools; 94th American Meteorological Society Annual Meeting, Atlanta, GA.
- Gensini, V.A., **C.A. Ramseyer**, and T.L. Mote (Jan. 2013). “Examining future severe weather environments using data from the NARCCAP”. 25th Conference on Climate Variability and Change; 93rd AMS Annual Meeting, Austin, TX.
- Ramseyer, C.A.** and T.L. Mote (Nov. 2011). “Forest Fire Aerosol Forcing of Precipitation Along the U.S. South Atlantic Coast”. 66th Annual Meeting of the Southeastern Division of Association of American Geographers, Athens, GA.
- Gensini, V.A., **C.A. Ramseyer**, and T.L. Mote (Aug. 2011). “Examining future severe weather environments using data from the NARCCAP”. 6th International Conference on Wind and Trees, Athens, GA.

HONORS AND AWARDS

Honors College Faculty Fellow <i>Salisbury University</i>	2017 – 2018
1st Place Graduate Student Poster <i>96th American Meteorological Society Annual Meeting</i>	Jan 2017
Outstanding Teaching Assistant Award <i>University of Georgia</i>	2013

SERVICE ACTIVITIES

PROFESSIONAL

Executive Committee (Secretary and Webmaster) <i>Southeastern Division of the AAG</i>	Oct 2020 – Present
Member <i>NOAA Drought Task Force</i>	Aug 2020 – Present
Journal Reviewer <i>Climate Research, JGR-Atmospheres</i>	2016 – Present
Invited Panelist <i>‘Factfulness and Climate Change’, JMU Honors College</i>	Oct 2020
External Consultant <i>JMU Geographic Science Program Review</i>	Sept 2020
Invited Seminar Lecturer <i>ODU CCPO Institute for Coastal Adaptation and Resilience</i>	Feb 2020
Selected Participant <i>Professional Development Institute at VT</i>	Oct 2019 – Apr 2020
Invited Colloquium Lecturer <i>UVA Department of Environmental Sciences Colloquium Series</i>	Oct 2019
Judge <i>Outstanding Student Presentation Award, AGU Fall Meeting</i>	Dec 2018
Invited Panelist <i>JMU ISAT 20th Anniversary</i>	Apr 2014
Judge <i>Univ of Georgia Geography Undergraduate Research Conference</i>	2014 – 2015

UNIVERSITY

Guest Lecturer <i>FREC 1044: Intro to Environmental Informatics</i>	2019 – 2020
Member <i>Dean of Henson School of Science and Tech Search Committee</i>	2019
Keynote Speaker <i>Salisbury University Research Day</i>	Mar 2018
Faculty Advisor <i>Salisbury University Club Baseball Team</i>	2018 – 2019
Guest Lecturer <i>FREC 1044: Intro to Environmental Informatics</i>	2019 – 2020
Member <i>Dean of Henson School of Science and Tech Search Committee</i>	2019
Guest Lecturer <i>PSYC 425/HONR 311 Psychology and Global Climate Change</i>	2018 – 2020
Guest Lecturer <i>IDIS 280 Responding to Climate Change Seminar</i>	2018
Member <i>Salisbury University Goldwater Scholarship Advisory Panel</i>	2017 – 2018
Honors College Fellow <i>Salisbury University Honors College Faculty Fellow</i>	2017 – 2018
Member <i>First Year Experience Steering Committee for New General Education Program</i>	2016 – 2018

Elected Member | *Council of University System of Maryland Faculty (CUSF)* 2016 – 2017

COLLEGE

Member | *CNRE Student Policy and Affairs Committee* 2020 – Present
Member | *Research and Faculty Development Committee* 2018
Member | *Henson School Curriculum Committee* 2017 – 2019
Member | *High Performance Computing Laboratory Steering Committee* 2017 – 2019
Member | *HPCL Administrator Search Committee* 2018

DEPARTMENT

Member | *VT Department of Geography Degree Committee* Apr 2020 – Present
Member | *VT Department of Geography Curriculum Committee* Aug 2019 – Present
Faculty Advisor | *SU Student Chapter of the American Meteorological Society* 2018 – 2019
Chair | *SU Department of Geography and Geoscience Curriculum Committee* Aug 2017 – May 2019
Webmaster | *SU Department of Geography and Geosciences* 2018 – 2019
Programmer | *Augmented Reality Sandboxes for Departmental laboratory courses* Aug 2017 – May 2018

PUBLIC ENGAGEMENT

Guest Speaker | *'Weather and Climate', Worcester County School District* Aug 2016 – May 2018
Instructor | *Delmarva Boy Scout Council Merit Badge College* Apr 2017/2018
Guest Speaker | *'Weather and Climate', Clarke County School District* Aug 2011 – May 2015
Volunteer | *Alternative Spring Break – Hurricane Katrina (Biloxi, MS)* Nov 2005

MEDIA ENGAGEMENT

NASA Interview | *Ongoing research on Puerto Rico, the Saharan Air Layer, and 2015 Caribbean drought* 2018
WBOC Interview | *About leading SU's inaugural Great Plains Thunderstorm Laboratory Field Course* 2018
WBOC Interview | *Featuring SU's Atmospheric Science Coursework* 2017
Oak Ridge National Laboratory Interview | *Discussing our publication on Saharan Dust and PR drought* 2017

PROFESSIONAL AFFILIATIONS

AMS, AAG, SEDAAG, AGU, Climate Specialty Group (AAG)

SUPERVISION OF STUDENT RESEARCH

GRADUATE ADVISOR

Tyler Gingrich, M.S. 2022
* Flash Drought and Potential Impacts of Puerto Rico and the Caribbean
Parker Henry, M.S. 2022
* Climatological and Synoptic Indicators of False Spring Events
Tyler Stanfield, M.S. 2022
* A Comprehensive Climatology of Upper-Level Velocity Potential Fields from 1950– 2019

UNDERGRADUATE ADVISOR

Alison Banks | *PhD Student and RA at Univ. of Georgia* 2018
Maximilian Magness | *M.S. Student and TA at Mississippi State Univ.* 2018

GRADUATE COMMITTEE MEMBER

Sarah Carey | M.S. 2022
Shakira Stackhouse | M.S. 2022
Zachary Van Tol | M.S. 2021
Samuel Carani | M.S. 2021
Peter Forister | M.S. 2021
Lindsey Morrison | M.S. 2020

TEACHING (VIRGINIA TECH = VT; SALISBURY UNIV = SU)

GEOG 1514 (VT): Introduction to Meteorology

GEOG 4504 (VT): Synoptic Meteorology

GEOG 4574 (VT): Climate Data Analysis and Programming

GEOG 4574 (VT): Graduate Climate Seminar

GEOG 105 (SU): Introduction to Physical Geography

GEOG 107 (SU): Weather, Hazards, and Climate Change

HONR 212 (SU): Climate Change in the Chesapeake Bay Region

GEOG 314 (SU): Tropical Meteorology

GEOG 317 (SU): Atmospheric Data Analysis and Programming

GEOG 389 (SU): Great Plains Thunderstorm Laboratory Field Course