Brian E. J. Rose

Associate Professor

Department of Atmospheric & Environmental Sciences

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Canadian citizen, lawful permanent resident of the USA, fluent in English and French

EDUCATION

PhD, Climate Physics and Chemistry, Massachusetts Institute of Technology 2010 Oceanic control of the sea ice edge and multiple equilibria in the climate system (Advisor: J. Marshall. Awarded 2010 Rossby Prize.)

MSc, Atmospheric & Oceanic Sciences, McGill University 2002

> A diagnostic scheme for global precipitation based on vertical motion (Advisor: C.A. Lin)

BSc, Atmospheric & Oceanic Sciences, McGill University 1999

Numerical simulation of a mesoscale vortex over the Beaufort Sea (Advisor: M.K. Yau)

ACADEMIC EMPLOYMENT

Associate Professor (with tenure), Atmospheric & Environmental Sciences, University 2019 at Albany (SUNY)

Assistant Professor, Atmospheric & Environmental Sciences, University at Albany (SUNY) 2013 - 2019

Research Associate, Atmospheric Sciences, University of Washington 2012 - 2013

NOAA Climate and Global Change Postdoctoral Fellow, Atmospheric Sciences, Uni-2010 - 2012 versity of Washington. Host: David S. Battisti

Postdoctoral Associate, Earth, Atmospheric and Planetary Sciences, MIT 2010 Research Assistant, Earth, Atmospheric and Planetary Sciences, MIT 2005 - 2010 2003 - 2004

Research Assistant, Atmospheric and Oceanic Sciences, McGill University

Research Assistant, McGill University and Centre de recherche en calcul appliqué, Montreal 2000

PUBLICATIONS

Peer-reviewed publications with UAlbany affiliation

Lin, Y.-J.*, B.E.J. Rose and Y.-T. Hwang (2023), Mean state AMOC affects AMOC 2023 weakening through subsurface warming in the Labrador Sea. J Climate 36(12), 3895-3915, doi:10.1175/JCLI-D-22-0464.1

^{*} indicates student co-author. Selected reprints are linked below

Cardinale, C.J.* and B.E.J. Rose (2023), The Increasing Efficiency of the Poleward Energy Transport into the Arctic in a Warming Climate. Geophys. Res. Lett. 50, doi:10.1029/2022GL100834

Zhu, F.* and B.E.J. Rose (2023), Multiple Equilibria in a Coupled Climate-Carbon Model. J. Climate 36(2), 547–564, doi:10.1175/JCLI-D-21-0984.1

Paiewonsky, P.*, O. Elison Timm and B.E.J. Rose (2023), State dependency of the forest-tundra-short wave feedback: comparing the mid-Pliocene and pre-industrial eras. Climate Dynamics 60, 3839–3861, doi:10.1007/s00382-022-06474-z

- Cardinale, C.J.* and B.E.J. Rose (2022), The Arctic Surface Heating Efficiency of Tropospheric Energy Flux Events. J. Climate 35, 5897–5913, doi:10.1175/JCLI-D-21-0852.1
- Min, L.*, D.R. Fitzjarrald, Y. Du, B.E. J. Rose, J. Hong, and Q. Min (2021), Exploring sources of bias in HRRR using New York State Mesonet. J. Geophys. Res. Atmospheres 126, doi:10.1029/2021JD034989

2022

- Lin, Y.-J.*, Y.-T. Hwang, J. Lu, F. Liu, and <u>B.E.J. Rose</u> (2021), The dominant contribution of Southern Ocean heat uptake to time-evolving radiative feedback in CESM. Geophys. Res. Lett. 48, doi:10.1029/2021GL093302
- Cardinale, C.J.*, B.E.J. Rose, A.L. Lang, and A. Donohoe (2021), Stratospheric and Tropospheric Flux Contributions to the Polar Cap Energy Budgets. J. Climate 34, 4261–4278, doi:10.1175/JCLI-D-20-0722.1
- Henry, M., T.M. Merlis, N.J. Lutsko, and B.E.J. Rose (2021), Decomposing the Drivers of Polar Amplification with a Single Column Model. J. Climate 34, 2355–2365, doi:10.1175/JCLI-D-20-0178.1
- Dai, A., D. Huang, <u>B.E.J. Rose</u>, J. Zhu and X. Tian (2020), Improved Methods for Estimating Equilibrium Climate Sensitivity from Transient Warming Simulations. Climate Dynamics 54, 4515–4543, doi:10.1007/s00382-020-05242-1
 - Rencurrel, M.C.* and B.E.J. Rose (2020), The Efficiency of the Hadley Cell Response to Wide Variations in Ocean Heat Transport. J. Climate 33, 1643–1658, doi:10.1175/JCLI-D-19-0334.1
- Rencurrel, M.C.* and B.E.J. Rose (2018), Exploring the climatic response to wide variations in ocean heat transport on an aquaplanet. J. Climate 31, 6299–6318, doi:10.1175/JCLI-D-17-0856.1
 - Rose, B.E.J. (2018), CLIMLAB: a Python toolkit for interactive, process-oriented climate modeling. J. Open Source Software, 3(24), 659, doi:10.21105/joss.00659
- Hoffman, P.F., D.S. Abbot, Y. Ashkenazy, D.I. Benn, J.J. Brocks, P.A. Cohen, G.M. Cox, J.R. Creveling, Y. Donnadieu, D.H. Erwin, I.J. Fairchild, D. Ferreira, J.C. Goodman, G.P. Halverson, M.F. Jansen, G. Le Hir, G.D. Love, F.A. Macdonald, A.C. Maloof, C.A. Partin, G. Ramstein, B.E.J. Rose, C.V. Rose, P.M. Sadler, E. Tziperman, A. Voigt, and S.G. Warren (2017), Snowball Earth climate dynamics and Cryogenian geology-geobiology. Science Advances 3:e1600983, doi:10.1126/sciadv.1600983

Singh, H.A., P.J. Rasch and B.E.J. Rose (2017), Increased Ocean Heat Convergence into the High Latitudes with CO₂-Doubling Enhances Polar-Amplified Warming. Geophys. Res. Lett. 44, doi:10.1002/2017GL074561

Rose, B.E.J., T.W. Cronin and C.M. Bitz (2017), Ice Caps and Ice Belts: the effects of obliquity on ice-albedo feedback. Astrophys. J. 846, doi:10.3847/1538-4357/aa8306

Haugstad, A.D.*, K.C. Armour, D.S. Battisti and <u>B.E.J. Rose</u> (2017), Relative roles of surface temperature and climate forcing patterns in the inconstancy of radiative feedbacks. Geophys. Res. Lett. 44, doi:10.1002/2017GL074372

Voigt, A., M. Biasutti, J. Scheff, J. Bader, S. Bordoni, F. Codron, R.D. Dixon, J. Jonas, S.M. Kang, N.P. Klingaman, R. Leung, J. Lu, B. Mapes, E.A. Maroon, S. McDermid, J. Park, R. Roehrig, B.E.J. Rose, G.L. Russell, J. Seo, T. Toniazzo, H. Wei, M. Yoshimori, and L.R.V. Zeppetello (2016), The Tropical Rain belts with an Annual Cycle and Continent Model Intercomparison Project: TRACMIP. J. Adv. Model. Earth Syst. 8, 1868–1891, doi:10.1002/2016MS000748

Rose, B.E.J. and L. Rayborn* (2016), The effects of ocean heat uptake on transient climate sensitivity. Current Climate Change Reports 2, 190–201, doi:10.1007/s40641-016-0048-4

Rose, B.E.J. and M.C. Rencurrel* (2016), The vertical structure of tropospheric water vapor: comparing radiative and ocean-driven climate changes. J. Climate 29, 4251–4268.

- Rose, B.E.J. (2015), Stable "Waterbelt" climates controlled by tropical ocean heat transport: a non-linear coupled climate mechanism of relevance to Snowball Earth. J. Geophys. Res. 150, doi:10.1002/2014JD022659
- Rose, B.E.J., K. Armour, D.S. Battisti, N. Feldl and D. Koll (2014), The dependence of transient climate sensitivity and radiative feedbacks on the spatial pattern of ocean heat uptake. Geophys. Res. Lett. 41, doi:10.1002/2013GL058955

Peer-reviewed publications prior to UAlbany affiliation

- Rose, B.E.J., D. Ferreira and J. Marshall (2013), The role of oceans and sea ice in abrupt transitions between multiple climate states. J. Climate 26, 2862-2879
 - Rose, B.E.J. and D. Ferreira (2013), Ocean heat transport and water vapor greenhouse in a warm equable climate: a new look at the low gradient paradox. J. Climate 26, 2117-2136
- Ferreira, D., J. Marshall and B.E.J. Rose (2011): Climate determinism revisited: multiple equilibria in a complex climate model. J. Climate. 24, 992-1012
- Rose, B.E.J. and J. Marshall (2009): Ocean heat transport, sea ice, and multiple climate states: insights from energy balance models. J. Atmos. Sci. 66, 2828-2843
- Rose, B.E.J. and C.A. Lin (2003): Precipitation from vertical motion: a statistical diagnostic scheme. Int. J. Climatol. 23, 903-919

Other publications

Rose, B.E.J. (2010): Oceanic control of the sea ice edge and multiple equilibria in the climate system, PhD thesis, MIT, Cambridge MA

Rose, B.E.J. (2002): A diagnostic scheme for global precipitation based on vertical motion, MSc thesis, McGill University, Montreal.

Under review or in prep.

He, Z.*, A. Dai, <u>B.E.J. Rose</u> and M. Vuille (2023): Influence of the Atlantic and Pacific Multidecadal Variability on Arctic Sea Ice in Pacemaker Simulations During 1920-2013. Submitted to J. Climate.

Lyu, X., D.D.B. Koll, N. Cowan, R. Hu, L. Kreidberg, and <u>B.E.J. Rose</u> (2023): Super-Earth LHS3844b is tidally locked. Submitted to Astrophys. J.

Li, Z.* and B.E.J. Rose (2023): Oceanic influence and lapse rate changes dominate the recent amplified Saharan warming. Submitted to Geophys. Res. Lett.

Zhu, F.* and B.E.J. Rose (2023): Unforced Millennial Oscillations of the Coupled Climate-Carbon System. In prep.

Ford, R.*, <u>B.E.J. Rose</u> et al. (2023): Transient climate sensitivity shaped by Antarctic sea ice changes: exploring links between ocean heat uptake patterns, sea ice changes, and mid-latitude cloud cover. In prep.

OTHER SCHOLARLY ACTIVITY

Developer of Open-Source Scientific Software and Educational Resources

Source code available at https://github.com/brian-rose or https://github.com/ProjectPythia

- Project Pythia Foundations and Pythia Cookbooks, community learning resources for Python-based computing in the geosciences
- ²⁰¹⁴ CLIMLAB, a Python-based toolkit for interactive, process-oriented climate modeling
- 2020 The Climate Laboratory, an open-access interactive textbook
- 2015 2019 Climate Modeling Courseware, interactive lecture notes in Jupyter notebook format
- 2015 CLIMLAB documentation, online user manual for the CLIMLAB software package
- 2015 pyCESM, Python-based analysis package for the Community Earth System Model

GRANT FUNDING

Federal

²⁰²⁴⁻²⁰²⁶ Collaborative Research: GEO OSE Track 2: Project Pythia and Pangeo: Building an inclusive geoscience community through accessible, reusable, and reproducible workflows (lead PI). NSF Geosciences Open Science Ecosystem, Total budget \$1,598,897, UAlbany budget \$489,545. Status: awarded

2023-2023

A Persistent BinderHub instance for Project Pythia (lead PI). NSF Advanced Cyberinfrastructure Coordination Ecosystem: Services & Support (ACCESS). In-kind allocation of compute resource credits at the "Discover ACCESS" level. *Status: ongoing*

Collaborative Research: EarthCube Data Capabilities: Project Pythia: A Community Learning Resource for Geoscientists (PI, UAlbany component). NSF EarthCube, \$379,311. Status: ongoing

Dynamic and thermodynamic mechanisms of desert amplification in a warming climate (co-PI with Dr. Liming Zhou). NSF Climate and Large Scale Dynamics, \$696,071. Status: ongoing

^{2015 – 2021} CAREER: Understanding the role of oceans in the planetary energy budget (PI). NSF Climate and Large Scale Dynamics, \$544,681. *Status: completed*

University at Albany

Does the Earth System have multiple stable states? (PI). FRAP-B award, \$2,000. Status: completed

Proposals not funded

²⁰²³⁻²⁰²⁵ CC* Regional Computing: NYCaRCC: New York Capital Region Computing Cluster (co-PI). NSF Campus Cyberinfrastructure, \$1,000,000. *Status: not funded*

MRI: Acquisition of High-Performance Computing Instrument to support Simulation & AI enabled Research and Teaching (co-PI). NSF Major Research Instrumentation, \$417,057. Status: not funded

²⁰¹⁸⁻²⁰²³ Collaborative Research: Framework: Software: Community Earth System Informatics: Enabling Convergent Science (co-PI). NSF Cyberinfrastructure for Sustained Scientific Innovation, \$4,808,504. Lead PI is Matthew Long, National Center for Atmospheric Research. UAlbany component \$500,000. Status: not funded

PRESENTATIONS

Invited Presentations

- MIT PAOC Retreat: Thoughts on reproducible climate model hierarchies: The intersection of science, models, and communication.
- 2023/07 Climatematch Academy (virtual global summer school): Climate Modeling keynote
- ^{2023/05} Climate Informatics 2023 Reproducibility Challenge: Project Pythia: Learning Python Geoscience Software. https://doi.org/10.5281/zenodo.7915657
- University of Washington, Atmos. Sci.: The efficiency of poleward heat transport and its role in polar amplification.
- 2023/03 NCAR Earth System Data Science Forum: Project Pythia Cookbooks.
- 2023/03 NCAR Oceanography Section: Multiple Equilibria in a Coupled Climate-Carbon Model.
- NCAR Climate Analysis Section: The efficiency of poleward heat transport and its role in polar amplification.
- Pangeo Showcase: Project Pythia: a community learning resource for Python-based computing in the geosciences.

- Penn State University, Meteorology & Atmospheric Sci.: Linking climate feedbacks to ocean heat uptake.
- ^{2020/II} Colorado State University, Atmospheric Sci.: The efficiency of poleward heat transport into the Arctic.
- McGill University, Atmospheric & Oceanic Sci.: Why does climate sensitivity go up as ocean heat uptake declines? A linear systems perspective.
- SIAM Conference on Applications of Dynamical Systems, minisymposium "Planetary Motion and its Effects on Climate".
- ICTP Summer School on Theory, Mechanisms and Hierarchical Modelling of Climate Dynamics: Multiple Equilibria in the Climate System.
- 2018/06 Rossbypalooza, U. Chicago: Ice Caps and Ice Belts / Intro to CLIMLAB
- AMS 17th Annual Student Conference, Tools of the Trade session: The Jupyter notebook.
- ^{2017/09} Columbia University, SEAS Colloquium in Climate Science: Why does climate sensitivity go up as ocean heat uptake declines? A linear systems perspective.
- York University, Earth & Space Sci. & Eng.: Global climate sensitivity goes up as ocean heat uptake declines: a linear systems perspective on inconstant climate feedbacks.
- MIT, PAOC seminar: Why does climate sensitivity go up as ocean heat uptake declines? A linear systems perspective.
- University of Washington, Atmos. Sci.: The vertical structure of tropospheric water vapor: comparing radiative and ocean-driven climate changes.
- University of Washington, Atmos. Sci.: Climate in the absence of ocean heat transport.
- Columbia University, SEAS Colloquium in Climate Science: Understanding the effects of ocean circulation on radiative feedbacks and the planetary energy budget.
- Stony Brook University, Marine & Atmos. Sci.: Understanding the effects of ocean circulation on radiative feedbacks and the planetary energy budget.
- Massachusetts College of Liberal Arts: What sets the temperature of the Earth? (public lecture)
- 2013/10 Caltech ESE seminar: The role of oceans in climate sensitivity and radiative feedbacks
- Courant Institute, NYU: The role of oceans in climate sensitivity and radiative feedbacks.
- SIAM Dynamical Systems conference: Multiple sea ice states and hysteresis in climate models.
- 2013/03 McGill University, Atmos. & Oceanic Sci.: One wet planet, many climates.
- 2013/03 University of Washington, Atmos. Sci.: Climate sensitivity and the oceans.
- 2013/01 U. Albany, Atmos. & Environ. Sci.: One wet planet, many climates.
- University of Washington, Atmos. Sci.: Understanding why ocean heat transport matters: a multi-model approach.
- 2012/05 MIT EAPS: Why does the climate system care about ocean heat transport?
- University of Washington, Oceanography: Modeling* the role of oceans and sea ice in multiple equilibria, abrupt climate change, and Snowball Earth (* and maybe understanding).
- U. Chicago, Geophysical Sci.: Water, water everywhere: role of oceans in warm climates.
- LDEO, Columbia U.: Why does the climate system care about ocean heat transport?

- U. Chicago, Geophysical Sci.: Why does the climate system care about ocean heat transport?
- University of Washington, Oceanography: Why does the climate system care about ocean heat transport?
- ACDC2011, Friday Harbor WA: Ocean heat transport and weak temperature gradients.
- CalTech, Environ. Sci. & Eng.: Impact of ocean heat transport in cold and warm climates.
- University of Washington, Atmos. Sci.: Oceanic control of the sea ice edge and multiple equilibria.
- 2010/09 Harvard, Earth and Planetary Sci.: Multiple equilibria of sea ice and climate.

Contributed conference presentations

- * indicates student co-author
- B.E.J. Rose and F. Zhu*, Multiple Equilibria in a Coupled Climate-Carbon Model (oral presentation), AGU Fall Meeting
- B.E.J. Rose and C. Cardinale*, The efficiency of poleward heat transport and its role in polar amplification (oral presentation), AGU Fall Meeting
- Y.-J. Lin*, <u>B.E.J. Rose</u>, and Y.-T. Hwang, Mean State AMOC Affects AMOC Weakening through Subsurface Warming in the Labrador Sea (oral presentation), AGU Fall Meeting
- J. Kent, D. Camron, J. Clyne, R. Ford*, M. Grover, R. May, K. Paul, <u>B.E.J. Rose</u>, and K. Tyle, Project Pythia: A Pangeo Community Tool for Open-Source Education (oral presentation), AGU Fall Meeting
- K. Tyle, D. Camron, J. Clyne, R. Ford*, M. Grover, J. Kent, R. May, K. Paul, and B.E.J. Rose, Project Pythia: Transforming Software Engineering Education for Geo-Science (poster), AGU Fall Meeting
- B.E.J. Rose and C. Cardinale*, The efficiency of poleward heat transport and its role in polar amplification (oral presentation), AMS Conference on Atmospheric and Oceanic Fluid Dynamics
- Y.-J. Lin*, <u>B.E.J. Rose</u> and Y.-T. Hwang, Mean state AMOC affects AMOC weakening through subsurface warming in the Labrador Sea (poster), US AMOC Science Team Meeting.
- B.E.J. Rose and C. Cardinale*, The Arctic Surface Heating Efficiency of Tropospheric Energy Flux Events (oral presentation), AMS 35th Conference on Climate Variability and Change
- D. Camron, A. Banihirwe, J. Clyne, N. Corbin, O. Eroglu, R. Ford*, M.A. Grover, J. Kent, A. Kootz, M. Long, R.M. May, K. Paul, B.E.J. Rose, K.R. Tyle, M. Sizemore, and A. Zacharias, Project Pythia Community Update (oral presentation), AMS 12th Symposium on Advances in Modeling and Analysis Using Python.
- K.R. Tyle, B.E.J. Rose, J. Clyne, K. Paul, J. Kent, M. Grover, D. Camron, R.M. May, and R. Ford*, Leveraging Project Pythia in an Advanced Geoscience Analysis and Visualization Course (oral presentation), AMS 31st Conference on Education.

2021/12

- K. Paul, A. Banihirwe, D. Camron, J. Clyne, O. Eroglu, M. Grover, J. Kent, M. Long, R. May, B.E.J. Rose, and K. Tyle, Project Pythia: A Resource to Help Geoscientists Navigate the Scientific Python Ecosystem. AGU Fall Meeting
- J. Kent, K. Paul, J. Clyne, M. Long, M. Grover, O. Eroglu, A. Banihirwe, R. May, D. Camron, B.E.J. Rose, and K. Tyle, Educational Efforts of NCAR Earth System Data Science Initiative: Making the Python Scientific Ecosystem More Accessible to Geoscientists (e-poster). AGU Fall Meeting
- K. Paul, A. Banihirwe, D. Camron, J. Clyne, O. Eroglu, M. Grover, J. Kent, R. May, B.E.J. Rose, and K. Tyle, Pangeo and Project Pythia: Helping Geoscientists Navigate the Scientific Python Ecosystem (e-poster). AGU Fall Meeting
- F. Zhu* and B.E.J. Rose, Carbon Cycle or Ice Albedo: A Tug-of-War That Leads to Multiple Equilibria (e-poster). AGU Fall Meeting
- X. Lv*, D.D.B. Koll, N.B. Cowan, B.E.J. Rose, R. Hu, and L. Kreidberg, Is LHS 3844b 1:1 tidally locked? Constraints from thermal phase curve modeling (e-poster). AGU Fall Meeting
- A. Banihirwe, D. Camron, J. Clyne, O. Eroglu, M. Grover, J. Kent, A. Kootz, M. Long, R. May, K. Paul, B.E.J. Rose, M. Sizemore, K. Tyle, and A. Zacharias, Project Pythia: A Community Learning Resource for Geoscientists (e-poster). EarthCube Annual Meeting 2021.
- B.E.J. Rose, M.C. Rencurrel*, M. Rugenstein, and K. Armour, Effects of spatial patterns of ocean heat uptake on Transient Climate Response (e-poster), AMS 34th Conference on Climate Variability and Change
- B.E.J. Rose and C. Cardinale*, The efficiency of poleward heat transport into the Arctic (oral presentation), AMS 34th Conference on Climate Variability and Change
- J. Clyne, M. Long, R. May, K. Paul, <u>B.E.J. Rose</u>, and K. Tyle, Project Pythia: A Community Learning Resource for Geoscientists (oral presentation), AMS 11th Symposium on Advances in Modeling and Analysis Using Python.
- Y.-J. Lin*, Y.-T. Hwang, J. Lu, F. Liu, and <u>B.E.J. Rose</u>, Attributing Radiative Feedback Evolution to Regional Ocean Heat Uptake (oral presentation), AGU Fall Meeting
- M.C. Rencurrel* and B.E.J. Rose, Effects of Spatial Patterns of Ocean Heat Uptake on the CMIP5 inter-model spread of the Transient Climate Response (e-poster), AGU Fall Meeting
- B.E.J. Rose, CLIMLAB 2.0: Lessons Learned and Future Roadmap for Interactive, Process-Oriented Climate Modeling (oral presentation), AMS 10th Symposium on Advances in Modeling and Analysis Using Python.
- 2020/01 B.E.J. Rose and F. Zhu*, Multiple Equilibria in a Fully Coupled Carbon? Climate Model (poster), AMS Robert Dickinson Symposium and 33rd Conference on Climate Variability and Change.
- B.E.J. Rose, M.C. Rencurrel*, and M. Rugenstein, Effects of spatial patterns of ocean heat uptake on the inter-model spread of the Transient Climate Response (oral presentation), AMS 33rd Conference on Climate Variability and Change.
- B.E.J. Rose, Interactive Climate Modeling and Reproducible Workflows in the Class-room (oral presentation), AGU Fall Meeting
- B.E.J. Rose and M.C. Rencurrel*, Ocean heat transport makes the world warmer: coupled cloud-convection-circulation response of an aquaplanet to idealized surface forcing

- (poster), AGU Fall Meeting
- Zhu, F.* and B.E.J. Rose, Multiple Equilibria in a Fully Coupled Carbon-Climate Model (eLightning presentation), AGU Fall Meeting.
- Cardinale, C.* and B.E.J. Rose, Stratospheric and Tropospheric contributions to the Poleward Energy Flux across 70°N (poster), AGU Fall Meeting.
- Rencurrel, M.C.*, <u>B.E.J. Rose</u> and M. Rugenstein, Effects of spatial patterns of ocean heat uptake on the inter-model spread of the Transient Climate Response (poster), AGU Fall Meeting.
- Rose, B.E.J., The Vertical Structure of Arctic Climate Change: a Single-Column Model Perspective (oral presentation), AMS Conference on Atmospheric and Oceanic Fluid Dynamics.
- Rencurrel, M.C.* and B.E.J. Rose, The Efficiency of the Hadley Cell Response to Wide Variations in Ocean Heat Transport (oral presentation), AGU Fall Meeting
- Rencurrel, M.C.* and B.E.J. Rose, The Efficiency of the Hadley Cell Response to Wide Variations in Ocean Heat Transport (poster), Understanding and Modeling the Earth's Climate, a symposium in honor of Isaac Held. Princeton University.
- Rencurrel, M.C.* and B.E.J. Rose, Exploring the Robust Hadley Cell Response to Variations in Ocean Heat Transport (poster), WCRP Grand Challenge on Clouds, Circulation and Climate Sensitivity: 2nd Meeting on Monsoons and Tropical Rain Belts.
- Rose, B.E.J. and C. Cardinale*, Stratospheric and Tropospheric Contributions to the Flux of Moist Static Energy across 70°N (oral presentation), AMS 31st Conference on Climate Variability and Change.
- Rose, B.E.J., A Computational Approach to Climate Science Education with CLIMLAB (oral presentation), AMS Eighth Symposium on Advances in Modeling and Analysis Using Python.
- Rose, B.E.J., Climate in the absence of ocean heat transport (oral presentation), AGU Fall Meeting
- Rose, B.E.J., A computational approach to climate science education with CLIMLAB (poster), AGU Fall Meeting
- Rencurrel, M.C.* and B.E.J. Rose, Understanding the robustness of Hadley cell response to wide variations in ocean heat transport (oral presentation), AGU Fall Meeting
- Cardinale, C.* and B.E.J. Rose, Stratospheric and Tropospheric Contributions to the Flux of Moist Static Energy Across 70°N and 65°S (poster), AGU Fall Meeting
- Rose, B.E.J., T.W. Cronin and C.M. Bitz, Ice Caps and Ice Belts: the effects of obliquity on albedo feedback (oral presentation), AMS Conference on Atmospheric and Oceanic Fluid Dynamics.
- Singh, H.A., P.J. Rasch and B.E.J. Rose, Impact of Ocean Dynamics on Polar Climate Change (oral presentation), AMS Conference on Atmospheric and Oceanic Fluid Dynamics.
- Rose, B.E.J., CLIMLAB: a Python-Based Software Toolkit for Interactive, Process-Oriented Climate Modeling, AMS Seventh Symposium on Advances in Modeling and Analysis Using Python.
- Rose, B.E.J. and L. Rayborn*, Climate sensitivity increases as ocean heat uptake declines: a linear systems perspective (oral presentation), AGU Fall Meeting.

2016/12

- Rose, B.E.J., Interactive, process-oriented climate modeling with CLIMLAB (oral presentation), AGU Fall Meeting.
- Rayborn, L.* and <u>B.E.J. Rose</u>, Understanding the Dependence of Radiative Feedbacks and Clouds on the Spatial Structure of Ocean Heat Uptake (oral presentation), AGU Fall Meeting.
- Rencurrel, M.C.* and B.E.J. Rose, Understanding Atmospheric Adjustment to Variations in Tropical Ocean Heat Transport (poster), AGU Fall Meeting.
- Rose, B.E.J., CLIMLAB: a Python toolkit for interactive, process-oriented climate modeling (oral presentation), AOSPY workshop, Columbia University.
- Rose, B.E.J., Robust non-local effects of ocean heat uptake on radiative feedback and subtropical cloud cover (oral presentation), Model Hierarchies workshop, Princeton.
- Rose, B.E.J., Robust non-local effects of ocean heat uptake on radiative feedback and subtropical cloud cover (oral presentation), Ocean Sciences.
- Rayborn, L.* and B.E.J. Rose, Robust effects of ocean heat uptake on radiative feedback and subtropical cloud cover: a study using radiative kernels (oral presentation), AGU Fall Meeting.
- Rencurrel, M.C.* and <u>B.E.J. Rose</u>, Atmospheric compensation of variations in tropical ocean heat transport: understanding mechanisms and implications on tectonic timescales (poster), AGU Fall Meeting.
- Rose, B.E.J., Climate in the absence of ocean heat transport (poster), AGU Fall Meeting.
- Rose, B.E.J., CLIMLAB: a Python-based software toolkit for interactive, process-oriented climate modeling (poster), AGU Fall Meeting.
- Rose, B.E.J., Accidental Lessons on Nonlinear Wind Ocean Sea Ice Interaction in the Tropics, with Implications for Snowball Earth (poster), AGU Fall Meeting.
- Rose, B.E.J., The dependence of transient climate sensitivity and radiative feedbacks on the spatial pattern of ocean heat uptake (oral presentation), Latsis Symposium, ETH Zurich.
- Rose, B.E.J., D. Battisti and K. Armour, The dependence of transient climate sensitivity and radiative feedbacks on the spatial pattern of ocean heat uptake (oral presentation), AGU Fall Meeting.
- Rose, B.E.J., Understanding the atmospheric response to ocean heat transport: a model inter-comparison (oral presentation), AGU Fall Meeting.
- Rose, B.E.J., D. Ferreira and J. Marshall, Not all poleward heat transport is created equal: a new look at warm climates, water vapor feedback, and the low-temperature-gradient paradox (oral presentation), AGU Fall Meeting.
- Rose, B.E.J., D. Ferreira and J. Marshall, On the dynamics of an abrupt climate change (oral presentation), CMOS Congress, Victoria BC.
- Rose, B.E.J., D. Ferreira and J. Marshall, On the dynamics of an abrupt climate change (oral presentation), AMS Polar Meteorology and Oceanography Conference, Boston MA.
- Rose, B.E.J., Oceanic control of the sea ice edge and multiple equilibria in the climate system (thesis defense), MIT, Cambridge MA.
- Rose, B.E.J., D. Ferreira and J. Marshall, Multiple equilibria and abrupt climate change in coupled Aquaplanet simulations (oral presentation), CMOS Congress, Ottawa ON.

- Rose, B.E.J., Ocean heat transport, sea ice, and multiple equilibria of the climate system, 2010/05 Sack Lunch Seminar in Oceanography and Climate, MIT, Cambridge MA.
- Rose, B.E.J., D. Ferreira and J. Marshall, Multiple equilibria of the atmosphere-ocean-2009/11 ice system (oral presentation), Ocean-Atmosphere Energy Transport conference, Cal-Tech, Pasadena CA.
- Rose, B.E.J., Multiple equilibria of the atmosphere-ocean-ice system (oral presenta-2009/04 tion), Graduate Climate Conference, UW, Pack Forest WA.
- Rose, B.E.J. and J. Marshall, Heat transport, wind stress and the ice edge: new insights 2008/04 from simple models (oral presentation), CMOS Congress, Kelowna BC.
- Rose, B.E.J., Sea ice, wind, and ocean currents: feedbacks and instabilities in ice age 2007/10 climates (oral presentation), Graduate Climate Conference, UW, Pack Forest WA.
- Rose, B.E.J. and J. Marshall, Constraints on atmospheric and oceanic heat transport 2007/05 from an idealized coupled climate model with sea-ice (oral presentation), CMOS-CGU-AMS Joint Congress, St. John's NF.
- Rose, B.E.J., The partition of heat transport in a simple coupled climate model (oral 2006/04 presentation), Graduate Climate Conference, UW, Pack Forest WA
- Rose, B.E.J. and C.A. Lin, A reconstruction of historical summer drought in Quebec 2004/06 based on tree rings (poster), Symposium Ouranos sur les changements climatiques, Montreal QC
- Rose, B.E.J. and C.A. Lin, Statistical relation between precipitation and vertical motion 2001/02 (oral presentation), Canadian CLIVAR Network Workshop, Victoria BC.

TEACHING AND ADVISING

Courses taught at UAlbany

* indicates newly developed courses

Course websites at links below or from http://www.atmos.albany.edu/facstaff/brose/

A ATM 320: Atmospheric Thermodynamics 2023

A ATM 622 General Circulation of the Atmosphere 2022

A ATM 100 The Atmosphere 2021 A ATM 623 Climate Modeling* 2015-2019 A ATM 500 Atmospheric Dynamics*

2015-2021

A ATM/ENV 415 Climate Laboratory* (previously A ENV 480) 2014-2022

A ATM 316 Dynamic Meteorology I 2014 A ATM 619 Oceans and Climate Seminar* 2013

Previous teaching

UW ATMS 542 Geophysical Fluid Dynamics II, co-taught with D.S. Battisti 2013 UW ATMS 514 / ESS 535 Ice and Climate, guest lectures for C.M. Bitz 2011, 2013

Lecturer, ACDC2011, "Dynamics of Past Warm Climates" 2011

Lecture note preparation, P. O'Gorman, General Circulation of the Atmosphere, MIT 2009

TA, guest lecturer, J. Marshall, Physics of Atmospheres and Oceans, MIT 2007

Lab assistant, Fayerweather Street School, Cambridge MA

TA for R.S. Lindzen, Strange bedfellows: science and environmental policy, MIT

Graduate Students Advised

As direct advisor or co-advisor

Robert Ford (advisor, PhD written exam 5/2023)
Li Zhuo (co-advisor, PhD written exam 12/2022)
Alejandro Ayala (co-advisor, MS completed 8/2022)
Yuan-Jen Lin (visiting PhD student, National Taiwan University. PhD defended 6/2022)
Fangze Zhu (advisor, PhD prospectus 5/2022)
Christopher Cardinale (advisor, MS completed 12/2018, PhD defended 5/2022)
Lance Rayborn (advisor, MS completed 12/2016)
Michael Cameron Rencurrel (advisor, MS completed 2/2017, PhD defended 4/2020)

As committee member - current

Nabindra Gyawali (PhD prospectus anticipated 1/2024)
Fuji Maneesai (PhD written exam 8/2023)
Cameron Paquette (PhD prospectus 6/2022)
Katrina Fandrich (PhD prospectus 9/2022)
Matthew Jenkins (PhD prospectus 8/2022)
Rebecca Orrison (PhD prospectus 10/2022)
Kathrin Alber (PhD prospectus 11/2021)

As committee member - completed

2015

Zhaoxiangrui "Henry" He (committee member, PhD completed 4/2023) 2019 - 2023 Brendan Wallace (committee member, PhD defended 11/2022) 2019 - 2022 Heather Sussman (committee member, PhD defended 4/2022) 2019 - 2022 2018 - 2022 Yan Jiang (committee member, PhD defended 1/2022) Lanxi Min (committee member, PhD defended 11/2021) 2016 - 2021 Ajay Raghavendra (committee member, PhD defended 9/2020) 2018 - 2020 Hing Ong aka Heng Wang (committee member, PhD defended 4/2020) 2018 - 2020 Anthony Joyce (committee member, U. Massachusetts Amherst, PhD defended 6/2019) 2015 - 2019 Di Chen (committee member, PhD defended 5/2019) 2016 - 2019 Hannah Attard (committee member, PhD defended 4/2018) 2014 - 2018 Pablo Paiewonsky (committee member, PhD defended 6/2017) 2013 - 2017 Christine Bloecker (MS thesis reader, 5/2017) 2017 Theodore Letcher (committee member, PhD defended 2/2017) 2014 - 2017 Christopher Colose (committee member, PhD defended 12/2016) 2013 - 2016

Melissa Gervais (external PhD thesis examiner, McGill University)

	Undergraduate Students Advised
2019	Duan-Heng Chang (summer research intern, National Taiwan University)
2015	Chyi-Rong Tsai (summer research intern, National Taiwan University)
2014	Deborah McGlynn (senior thesis in Environmental Science)
2013 -	Academic advisor for roughly 30 students in ATM and ENV majors
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	SERVICE
	Departmental
2022	Search committee for Instructional Support Specialist (resulted in hiring of Dr. Yi Cui)
2021 -	Faculty mentor to Assistant Prof. Sujata Murty
2020 -	Faculty lead on development of Climate Science graduate degree programs
2019 - 2020	Faculty search committee in Earth System Science (resulted in two tenure-track hires Dr. Sujata Murty and Dr. Aubrey Hillman)
2019 -	E-TEC building committee, member
2018 - 2019	Faculty organizer for the DAES graduate student recruitment visit
2017	Represented DAES at DEC Pack Forest camp College Exploration event
2015 -	DAES graduate committee member
2014 - 2022	Chair, planning committee for GFD / Env. Sci. teaching laboratory in E-TEC building
2014 - 2022	Organizer, DAES Climate Group weekly seminar series
2015 -	Transfer student advising
	College of Arts and Sciences
2016 – 2019	CAS Faculty Council (at-large councillor)
2016 - 2017	CAS Academic Planning Committee (inactive)
2017 - 2019	CAS Academic Support Committee
	University at Albany
2023 - 2024	Council on Research (chair)
2022 -	Academic Standing committee for the Honors College (member)
2022 - 2023	Council on Research (co-chair)
2021 - 2022	Council on Research (chair)
2019 - 2021	Council on Research (member, chair of ERCA subcommittee, member of FRAP-A re-
	view subcommittee)
2019 - 2024	University Senate (department representative)
2018	Udall Scholarship review committee
2017	Strategic Planning Steering Committee

Professional

Organizer and facilitator for the Pythia Cook-off 2023 workshop, held at NCAR June 2023 20-23 2023 Judge for Outstanding Student Presentation Awards, AGU Fall Meeting. 2022/12

Session co-chair (multiple) & student judge, AMS 35th Conference on Climate Variability and Change Textbook reviewer for Cambridge University Press Session co-chair (multiple) & student judge, AMS 34th Conference on Climate Variability and Change Program chair, AMS 34th Conference on Climate Variability and Change Member of AMS Climate Variability and Change Committee Panel review member for DOE Regional and Global Model Analysis program Member of Advisory Committee, 2018 CESM Polar Modeling Workshop. Reviewer for Nature, J. Climate, J. Atmos. Sci., J. Geophys. Res., Geophys. Res. Lett., Nature Geosci., Nature Clim. Change, Nature Comm., JAMES, Climate Dynamics, Astrophys. J., Planetary Sci. J., Mon. Not. R. Astron. Soc., SIAM J. Appl. Dyn. Sys., Earth Sys. Dyn., & Encyclopedia of Natural Resources Proposal reviewer for NSF and Israel Science Foundation Session Convener: "Polar Climate and Predictability", AGU Fall Meeting. Session Convener: "Innovative Insights into the Climate System and Climate Models: Exploring Scales and Parameter Spaces", AGU Fall Meeting. Judge for Outstanding Student Presentation Awards, AGU Fall Meeting. Convener, Workshop on heat transport in aquaplanet models, UW Atmos. Sci. Moderator, NOAA C&GC Postdoctoral Program 20th anniversary celebration. Chair (invited), ocean circulation session, 3rd Graduate Climate Conference, UW. Community UAlbany Family Earth Day, lead faculty organizer Public seminar: "Climate Sensitivity in an Uncertain World", Science on Tap. 2007–2009 Space Science and Next Generation of Science Standards (forum for high school science teachers), lecture on climate change and climate modeling, RPI. 2007–2009 2019 Editors' Citation for Excellence in Referecing for Geophysical Research Letters Commendation for exceptional refereeing, Nature Publishing Group. NOAA Climate and Global Change Postdoctoral Fellowship Carl-Gustav Rossby Prize for best thesis, MIT Jule G. Charney Prize and MIT Presidential Fellowship Dean's Honour List for M.Sc. t	2022/10	NSF review panel member
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SUMMER SCHOOLS AND WORKSHOPS

2023/06	Pythia Cook-off 2023, NCAR
2022/06	Project Pythia Summer Hackathon 2022, NCAR.
2022/05	The Pattern Effect: Coupling of SST Patterns, Radiative Feedbacks, and Climate Sen-
	sitivity Workshop, US CLIVAR, UCAR / virtual.
2019/10	CMIP6 Hackathon, LDEO, Columbia University.
2018/07	WCRP Grand Challenge on Clouds, Circulation and Climate Sensitivity: 2nd Meeting
	on Monsoons and Tropical Rain Belts, ICTP, Trieste, Italy.
2018/06	ICTP Summer School on Theory, Mechanisms and Hierarchical Modelling of Climate
	Dynamics: Multiple Equilibria in the Climate System, Trieste, Italy.
2018/06	Rossbypalooza, "Understanding climate through simple models", U. Chicago.
2016/11	AOSPY / Pangeo scientific software workshop, Columbia University.
2016/11	Model Hierarchies Workshop, Princeton University.
2015/09	Monsoons and the ITCZ workshop, Columbia University.
2012/09	PCC Summer Institute: Atmosphere-Ocean-Ice Shelf Interactions, Friday Harbor, WA.
2012/07	Workshop on heat transport in aquaplanet models, University of Washington.
2012/07	NOAA Climate and Global Change Summer Institute, Steamboat Springs, CO.
2011/09	ACDC2011: Dynamics of Past Warm Climates, Friday Harbor, WA.
2009/05	Fundamental Problems in Climate Dynamics, Princeton University.
2007/07	International Sea Ice Summer School, Svalbard.

PROFESSIONAL AFFILIATIONS

American Geophysical Union American Meteorological Society