

Curriculum Vitae

RAN FENG, PhD

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[Research Website](#)
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EDUCATION

University of Michigan, Ann Arbor	PhD in Earth and Environmental Sciences	2010 - 2015
Institute of Atmospheric Physics, Chinese Academy of Sciences	MS in Meteorology	2007 - 2010
Nanjing University	BS in Atmospheric Sciences	2003 - 2007

PROFESSIONAL POSITIONS

University of Connecticut	Assistant Professor	2019 – present
	Assistant Professor in Residence	2018 – 2019
National Center for Atmospheric Research	Postdoctoral Researcher	2015 – 2017
University of Michigan, Ann Arbor, MI	Postdoctoral Researcher	2010 – 2015
Shell Wind Energy Inc., Houston, TX	Intern	May - July 2013
Wuhan Meteorological Observatory	Intern	Mar - May 2007

RESEARCH EXPERIENCE

PUBLICATIONS IN PRESS/REVIEW

- Bhattacharya, T., Brennan, P., Ibarra, D.E., Gagnon, C.A., Butler, K., Terrazas, A., Miller, S., Munk, L.A., Boutt, D.F., **Feng, R.** and Bullinger, S.N., 2024. Pleistocene shifts in Great Basin hydroclimate seasonality govern the formation of lithium-rich paleolake deposits (accepted by Quaternary Science Review)
- Fastovich, D., Bhattacharya, T., Pérez-Ángel, L.C., Burls, N.J., **Feng, R.**, Knapp, S. and Mayer, T., 2023. Plio-Pleistocene evolution of westerly moisture transport into the northern tropical Andes (accepted by Earth and Planetary Science Letters)

MANUSCRIPTS IN PREP

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- Albright, M., **Feng, R.**, Bhattacharya, T., Zhu, J., Otto-Bliesner, B., Zarzycki, C., Li, H., Molina, M. 2024. Mid-Pliocene increase in mesoscale convective systems in the American Southwest. (led by student)
- Mayer, T., **Feng, R.**, Ford, H., Zhu, J., McClymont, E., Ho, S., Tabor, C., Taylor, D. 2024. Plio-Pleistocene equatorial seawater $\delta^{18}\text{O}$ changes consistent with strengthened Pacific Walker circulation (led by student)

PEER-REVIEWED PUBLICATIONS (49 TOTAL, 38 AT UCONN, GOOGLE H-INDEX 23)

- Zhao, A., **Feng, R.**, Brierley, C. M., Zhang, J., & Hu, Y. (2024). Aerosol uncertainties in tropical precipitation changes for the mid-Pliocene warm period. *Climate of the Past*, 20(5), 1195–1211.
- Haywood, A. M., Tindall, J. C., Burton, L. E., Chandler, M. A., Dolan, A. M., Dowsett, H. J., ... (including **Feng, R.**) Others. (2024). Pliocene Model Intercomparison Project Phase 3 (PlioMIP3) Science plan and experimental design. *Global and Planetary Change*, 232, 104316.
- Zhang, K., Sun, Y., Zhang, Z., Stepanek, C., Feng, R., Hill, D., ... (including **Feng, R.**) Others. (2024). Revisiting the physical processes controlling the tropical atmospheric circulation changes during the Mid-Piacenzian Warm Period. *Quaternary International*, 682, 46–59.
- Weiffenbach, J. E., Dijkstra, H. A., von der Heydt, A. S., Abe-Ouchi, A., Chan, W.-L., Chandan, D., ... (including **Feng, R.**) Others. (2024). Highly stratified mid-Pliocene Southern Ocean in PlioMIP2. *Climate of the Past*, 20(4), 1067–1086.
- Bhattacharya, T., **Feng, R.**, Maupin, C. R., Coats, S., Brennan, P. R., & Carter, E. (2023). California margin temperatures modulate regional circulation and extreme summer precipitation in the desert Southwest. *Environmental Research Letters*, 18(10), 104048.
- Guo, D., Wang, H., Romanovsky, V. E., Haywood, A. M., Pepin, N., Salzmann, U., (including **R. Feng** ... Others. (2023). Highly restricted near-surface permafrost extent during the mid-Pliocene warm period. *Proceedings of the National Academy of Sciences*, 120(36), e2301954120.
- Rubbelke, C. B., Bhattacharya, T., **Feng, R.**, Burls, N. J., Knapp, S., & McClymont, E. L. (2023). Plio-Pleistocene Southwest African Hydroclimate Modulated by Benguela and Indian Ocean Temperatures. *Geophysical Research Letters*, 50(19), e2023GL103003.
- Ren, X., Lunt, D. J., Hendy, E., Von Der Heydt, A., Abe-Ouchi, A., Otto-Bliesner, B., ... (including **Feng, R.**) Others. (2023). The hydrological cycle and ocean circulation of the Maritime Continent in the Pliocene: results from PlioMIP2. *Climate of the Past*, 19(10), 2053–2077.
- Cramwinckel, M.J., Burls, N.J., Fahad, A.A., Knapp, S., West, C.K., Reichgelt, T., Greenwood, D.R., Chan, W.L., Donnadieu, Y., Hutchinson, D.K. ... (including **Feng, R.**), 2023. Global and zonal-mean hydrological response to early Eocene warmth. *Paleoceanography and Paleoclimatology*, p.e2022PA004542.

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- Burton, L. E., Haywood, A. M., Tindall, J. C., Dolan, A. M., Hill, D. J., Abe-Ouchi, A., Chan, W.-L., Chandan, D., **Feng, R.**, Hunter, S. J., Li, X., Peltier, W. R., Tan, N., Stepanek, C., and Zhang, Z., 2023. On the climatic influence of CO₂ forcing in the Pliocene, *Clim. Past*, 19, 747–764, <https://doi.org/10.5194/cp-19-747-2023>.
- Reichgelt, T., Baumgartner, A., **Feng, R.**, & Willard, D. A., 2023. Poleward amplification, seasonal rainfall and forest heterogeneity in the Miocene of the eastern USA. *Global and Planetary Change*, 222, 104073.
- Weiffenbach, J. E., Baatsen, M. L. J., Dijkstra, H. A., von der Heydt, A. S., Abe-Ouchi, A., Brady, E. C., Chan, W.-L., Chandan, D., Chandler, M. A., Contoux, C., **Feng, R.**, Guo, C., Han, Z., Haywood, A. M., Li, Q., Li, X., Lohmann, G., Lunt, D. J., Nisancioglu, K. H., Otto-Bliesner, B. L., Peltier, W. R., Ramstein, G., Sohl, L. E., Stepanek, C., Tan, N., Tindall, J. C., Williams, C. J. R., Zhang, Q., and Zhang, Z.: Unraveling the mechanisms and implications of a stronger mid-Pliocene Atlantic Meridional Overturning Circulation (AMOC) in PlioMIP2, 2023, *Clim. Past*, 19, 61–85, <https://doi.org/10.5194/cp-19-61-2023>.
- Knapp, S., Burls, N. J., Dee, S., **Feng, R.**, Feakins, S. J., & Bhattacharya, T., 2022. A Pliocene precipitation isotope proxy-model comparison assessing the hydrological fingerprints of sea surface temperature gradients. *Paleoceanography and Paleoclimatology*, e2021PA004401.
- Bhattacharya, T., **Feng, R.**, Tierney, J. E., Rubbelke, C., Burls, N., Knapp, S., & Fu, M., 2022. Expansion and intensification of the North American Monsoon during the Pliocene. *AGU Advances*, 3(6), e2022AV000757.
- Pontes, G. M., Taschetto, A. S., Sen Gupta, A., Santoso, A., Wainer, I., Haywood, A. M., ... (including **Feng, R.**) and Oldeman, A. M., 2022. Mid-Pliocene El Niño/Southern Oscillation suppressed by Pacific intertropical convergence zone shift. *Nature Geoscience*, 15(9), 726-734.
- Bahadori, A., Holt, W.E., **Feng, R.**, Austermann, J., Loughney, K.M., Salles, T., Moresi, L., Beucher, R., Lu, N., Flesch, L.M. and Calvelage, C.M., 2022. Coupled influence of tectonics, climate, and surface processes on landscape evolution in southwestern North America. *Nature communications*, 13(1), pp.1-18.
- Brennan, P.R., Bhattacharya, T., **Feng, R.**, Tierney, J.E. and Jorgensen, E., 2022. Patterns and Mechanisms of Northeast Pacific Temperature Response to Pliocene Boundary Conditions. *Paleoceanography and Paleoclimatology*, 37(7), p.e2021PA004370.
- Weiffenbach, J.E., Baatsen, M.L., Dijkstra, H.A., von der Heydt, A.S., Abe-Ouchi, A., Brady, E.C., Chan, W.L., Chandan, D., Chandler, M.A., Contoux, C. and **Feng, R.**, 2023. Unraveling the mechanisms and implications of a stronger mid-Pliocene Atlantic Meridional Overturning Circulation (AMOC) in PlioMIP2. *Climate of the Past*, 19(1), pp.61-85.
- **Feng, R.**, Bhattacharya, T., Otto-Bliesner, B.L., Brady, E.C., Haywood, A.M., Tindall, J.C., Hunter, S.J., Abe-Ouchi, A., Chan, W.L., Kageyama, M. and Contoux, C., 2022. Past terrestrial

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hydroclimate sensitivity controlled by Earth system feedbacks. Nature communications, 13(1), pp.1-11.

- Han, Z., Zhang, Q., Li, Q., **Feng, R.**, Haywood, A.M., Tindall, J.C., Hunter, S.J., Otto-Bliesner, B.L., Brady, E.C., Rosenbloom, N. and Zhang, Z., 2021. Evaluating the large-scale hydrological cycle response within the Pliocene Model Intercomparison Project Phase 2 (PlioMIP2) ensemble. Climate of the Past, 17(6), pp.2537-2558.
- Oldeman, A. M., Baatsen, M. L. J., von der Heydt, A. S., Dijkstra, H. A., Tindall, J. C., Abe-Ouchi, A., Booth, A. R., Brady, E. C., Chan, W.-L., Chandan, D., Chandler, M. A., Contoux, C., **Feng, R.**, Guo, C., Haywood, A. M., Hunter, S. J., Kamae, Y., Li, Q., Li, X., Lohmann, G., Lunt, D. J., Nisancioglu, K. H., Otto-Bliesner, B. L., Peltier, W. R., Pontes, G. M., Ramstein, G., Sohl, L. E., Stepanek, C., Tan, N., Zhang, Q., Zhang, Z., Wainer, I., and Williams, C. J. R.: Reduced El Niño variability in the mid-Pliocene according to the PlioMIP2 ensemble, Clim. Past, 17, 2427–2450, <https://doi.org/10.5194/cp-17-2427-2021>, 2021.
- Jepson, G., Carrapa, B., Gillespie, J., **Feng, R.**, DeCelles, P.G., Kapp, P., Tabor, C.R. and Zhu, J., 2021. Climate as the Great Equalizer of Continental-Scale Erosion. Geophysical Research Letters, 48(20), p.e2021GL095008.
- Berntell, E., Zhang, Q., Li, Q., Haywood, A. M., Tindall, J. C., Hunter, S. J., Zhang, Z., Li, X., Guo, C., Nisancioglu, K. H., Stepanek, C., Lohmann, G., Sohl, L. E., Chandler, M. A., Tan, N., Contoux, C., Ramstein, G., Baatsen, M. L. J., von der Heydt, A. S., Chandan, D., Peltier, W. R., Abe-Ouchi, A., Chan, W.-L., Kamae, Y., Williams, C. J. R., Lunt, D. J., **Feng, R.**, Otto-Bliesner, B. L., and Brady, E. C.: Mid-Pliocene West African Monsoon rainfall as simulated in the PlioMIP2 ensemble, Clim. Past, 17, 1777–1794, <https://doi.org/10.5194/cp-17-1777-2021>, 2021.
- Zhang, Z., Li, X., Guo, C., Otterå, O. H., Nisancioglu, K. H., Tan, N., Contoux, C., Ramstein, G., **Feng, R.**, Otto-Bliesner, B. L., Brady, E., Chandan, D., Peltier, W. R., Baatsen, M. L. J., von der Heydt, A. S., Weiffenbach, J. E., Stepanek, C., Lohmann, G., Zhang, Q., Li, Q., Chandler, M. A., Sohl, L. E., Haywood, A. M., Hunter, S. J., Tindall, J. C., Williams, C., Lunt, D. J., Chan, W.-L., and Abe-Ouchi, A.: Mid-Pliocene Atlantic Meridional Overturning Circulation simulated in PlioMIP2, Clim. Past, 17, 529–543, <https://doi.org/10.5194/cp-17-529-2021>, 2021.
- Pontes, G.M., Wainer, I., Taschetto, A.S., Sen Gupta, A., Abe-Ouchi, A., Brady, E.C., Chan, W.L., Chandan, D., Contoux, C., **Feng, R.** and Hunter, S.J., 2020. Drier tropical and subtropical Southern Hemisphere in the mid-Pliocene Warm Period. Scientific reports, 10(1), p.13458.
- Tierney, J.E., Poulsen, C.J., Montañez, I.P., Bhattacharya, T., **Feng, R.**, Ford, H.L., Hönisch, B., Inglis, G.N., Petersen, S.V., Sagoo, N. and Tabor, C.R., 2020. Past climates inform our future. Science, 370(6517).
- de Nooijer, W., Zhang, Q., Li, Q., Zhang, Q., Li, X., Zhang, Z., Guo, C., Nisancioglu, K. H., Haywood, A. M., Tindall, J. C., Hunter, S. J., Dowsett, H. J., Stepanek, C., Lohmann, G., Otto-Bliesner, B. L., **Feng, R.**, Sohl, L. E., Chandler, M. A., Tan, N., Contoux, C., Ramstein, G., Baatsen, M. L. J., von der Heydt, A. S., Chandan, D., Peltier, W. R., Abe-Ouchi, A., Chan, W.-L., Kamae,

- Y., and Brierley, C. M.: Evaluation of Arctic warming in mid-Pliocene climate simulations, *Clim. Past*, 16, 2325–2341, <https://doi.org/10.5194/cp-16-2325-2020>, 2020.
- **Feng, R.**, Otto-Bliesner, B.L., Brady, E.C. and Rosenbloom, N., 2020. Increased climate response and Earth system sensitivity from CCSM4 to CESM2 in mid-Pliocene simulations. *Journal of Advances in Modeling Earth Systems*, 12(8), p.e2019MS002033.
 - Haywood, A. M., Tindall, J. C., Dowsett, H. J., Dolan, A. M., Foley, K. M., Hunter, S. J., Hill, D. J., Chan, W.-L., Abe-Ouchi, A., Stepanek, C., Lohmann, G., Chandan, D., Peltier, W. R., Tan, N., Contoux, C., Ramstein, G., Li, X., Zhang, Z., Guo, C., Nisancioglu, K. H., Zhang, Q., Li, Q., Kamae, Y., Chandler, M. A., Sohl, L. E., Otto-Bliesner, B. L., **Feng, R.**, Brady, E. C., von der Heydt, A. S., Baatsen, M. L. J., and Lunt, D. J., 2020. A return to large-scale features of Pliocene climate: the Pliocene Model Intercomparison Project Phase 2, *Clim. Past*, <https://doi.org/10.5194/cp-2019-145>.
 - McClymont, E. L., Ford, H. L., Ho, S. L., Tindall, J. C., Haywood, A. M., Alonso-Garcia, M., Bailey, I., Berke, M. A., Littler, K., Patterson, M. O., Petrick, B., Peterse, F., Ravelo, A. C., Risebrobakken, B., De Schepper, S., Swann, G. E. A., Thirumalai, K., Tierney, J. E., van der Weijst, C., White, S., Abe-Ouchi, A., Baatsen, M. L. J., Brady, E. C., Chan, W.-L., Chandan, D., **Feng, R.**, Guo, C., von der Heydt, A. S., Hunter, S., Li, X., Lohmann, G., Nisancioglu, K. H., Otto-Bliesner, B. L., Peltier, W. R., Stepanek, C., and Zhang, Z., 2020. Lessons from a high-CO2 world: an ocean view from ~3 million years ago, *Clim. Past*, 16, 1599–1615, <https://doi.org/10.5194/cp-16-1599-2020>.
 - Yasuhara, M., Wei, C.L., Kucera, M., Costello, M.J., Tittensor, D.P., Kiessling, W., Bonebrake, T.C., Tabor, C.R., **Feng, R.**, Baselga, A. and Kretschmer, K., 2020. Past and future decline of tropical pelagic biodiversity. *Proceedings of the National Academy of Sciences*, 117(23), pp.12891-12896.
 - Fan, M., **Feng, R.**, Geissman, J.W., and Poulsen, C.J., 2020, Late Paleogene emergence of a North American loess plateau. *Geology*, v. 48, p. 273–277.
 - Tierney, J.E., Haywood, A.M., **Feng, R.**, Bhattacharya, T. and Otto-Bliesner, B.L., 2019. Pliocene warmth consistent with greenhouse gas forcing. *Geophysical Research Letters*, 46(15), pp.9136-9144.
 - Li, X.-K., Seth, A., Zhang, C., **Feng, R.**, Long, X., Li, W., & Liu, K. (2020). Evaluation of WRF-CMAQ simulated climatological mean and extremes of fine particulate matter of the United States and its correlation with climate extremes. *Atmospheric Environment*, (117181 ed., vol. 222).
 - **Feng, R.**, Otto-Bliesner, B.L., Xu, Y., Brady, E., Fletcher, T. and Ballantyne, A., 2019. Contributions of aerosol-cloud interactions to mid-Piacenzian seasonally sea ice-free Arctic Ocean. *Geophysical Research Letters*, 46(16), pp.9920-9929.
 - Tabor, C.R., **Feng, R.** and Otto-Bliesner, B.L., 2019. Climate Responses to the Splitting of a Supercontinent: Implications for the Breakup of Pangea. *Geophysical Research Letters*, 46(11), pp.6059-6068.

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- Otto-Bliesner B., Lofverstrom M., Pepijn B., **R. Feng**, 2019. Arctic warming and the Greenland ice sheet during the Last Interglacial, *SCIENCE HIGHLIGHTS: Paleo Constraints on Sea-Level Rise, Past Global Changes Magazine*, vol. 27(1), 22-23.
- Carrapa, B., Clementz, M., **R. Feng**, 2019. Ecological and hydroclimate responses to strengthening of the Hadley circulation on the South American continent during the LMC, *Proceedings of the National Academy of Sciences*: 201810721.
- Capron, E., Govin, A., **Feng, R.**, Otto-Bliesner, B.L. and Wolff, E.W., 2017. Critical evaluation of climate syntheses to benchmark CMIP6/PMIP4 127 ka Last Interglacial simulations in the high-latitude regions. *Quaternary Science Reviews*, 168, pp.137-150.
- Fletcher, T., **Feng, R.**, Telka, A.M., Matthews, J.V. and Ballantyne, A., 2017, Floral dissimilarity and the influence of climate in the Pliocene High Arctic: Biotic and abiotic influences on five sites on the Canadian Arctic Archipelago. *Frontiers in Ecology and Evolution*, 5, p.19.
- **R. Feng**, Otto-Bliesner, B.L., Fletcher, T.L., Tabor, C.R., Ballantyne, A.P. and Brady, E.C., 2017, Amplified Late Pliocene terrestrial warmth in northern high latitudes from greater radiative forcing and closed Arctic Ocean gateways, 2017, *Earth and Planetary Science Letters*, 466, pp.129-138.
- Lunt D., and the DeepMIP Model and Data Community, 2017, The DeepMIP contribution to PMIP4: experimental design for model simulations of the EECO, PETM, and pre-PETM (version 1.0), *Geosci. Model Dev.*, 10, 889-901, doi:10.5194/gmd-10-889-2017.
- Otto-Bliesner, B., A. Jahn, **R. Feng**, E. C. Brady, A. Hu, M. Lofverstrom, 2017, Amplified North Atlantic warming in the late Pliocene by changes in Arctic gateways, *Geophys. Res. Lett.*, 44, doi: 10.1002/2016GL071805, Editor's highlight.
- C. R. Tabor, C. J. Poulsen, D. J. Lunt, N. A. Rosenbloom, B. L. Otto-Bliesner, P. J. Markwick, E. C. Brady, A. Farnsworth, and **R. Feng**, 2016, The cause of Late Cretaceous cooling: a multi-model/proxy comparison, *Geology*, G38363-1.
- **R. Feng**, C. J. Poulsen, and M. Werner, 2016, Intensification of tropical circulation and tectonic extension recorded by Neogene terrestrial $\delta^{18}\text{O}$ records of the western U.S., *Geology*, G38212-1.
- J. Li, T. A. Ehlers, S. Mutz, C. Steger, H. Paeth, M. Werner, C. J. Poulsen and **R. Feng**, 2016, Modern Precipitation $\delta^{18}\text{O}$ and Trajectory Analysis over the Himalaya-Tibet Orogen from ECHAM5-wiso Simulations, *J Geophys Res-Atmos*, 121.
- **R. Feng** and Chris J. Poulsen, 2016, Refinement of Eocene lapse rates, fossil-leaf altimetry, and North American Cordilleran surface elevation estimates, *Earth Planet. Sci. Lett.*, 436, 130-141.
- **R. Feng** and C. J. Poulsen, 2014, Andean elevation control on tropical Pacific climate and ENSO, *Paleoceanography*, 29, 795-809, highlighted in EOS Research Spotlights.

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- **R. Feng**, C. J. Poulsen, M. Werner, P. C. Chamberlain, A. Mulch, H. Mix, 2013, Early Cenozoic Evolution of Topography, Climate, and Stable Isotopes in Precipitation in the North American Cordillera. *American Journal of Science*, 313, 613-648, highlighted on the front Page.
- **R. Feng**, J. Li, J. Wang, 2011, Regime change of the boreal summer Hadley circulation and its connection with the tropical SST. *J. Climate*, 24, 3867–3877.

GRANTS (~\$4.5 M TOTAL, ~\$1.9 M TO UCONN FROM EXTERNAL SOURCES, 3 AS LEAD-PI)

- **National Science Foundation (2303566)**, Collaborative Research: Reducing model uncertainty by improving understanding of Pacific meridional climate structure during past warm intervals, **Ran Feng (PI)**, Jiang Zhu (co-PI), Tripti Bhattacharya (co-PI), ~\$900K total (~\$305,000 to UConn).
- **National Science Foundation (2238875)**, CAREER: The State Dependency of Climate Sensitivity during Cenozoic Warm Intervals, **Ran Feng (PI)**, (\$716,007 to UConn).
- **CLAS Academic Themes award**, Climate Change in Regions with high vulnerability: An Examination of the National and Subnational Policy Responses in Ghana and India, Charles Kaye-Essien (co-PI), Prakash Kashwan (PI), **Ran Feng (co-PI)**, \$47,530, (\$10,620 to Feng) 2022 – 2023
- **National Science Foundation (2114204)**, Collaborative Research: Illuminating the characteristics, causes, and paleoclimatic importance of the Mid-Cenozoic Loess in the Western USA, Majie Fan (PI), **Ran Feng (co-PI)**, \$580K (\$260,818 to UConn)
 - Application for computing resource through University Large allocation request to Cheyenne supercomputer, 24M core hours, Ran Feng (PI)
- **National Science Foundation (2103055)**, Collaborative Research: Sensitivity of Walker circulation to CO₂ forcing during the late Pliocene as an analogue for future climate change, **Ran Feng (PI)**, Tripti Bhattacharya (co-PI), \$530K (\$329,753 to UConn).
 - Application for computing resource through University Large allocation request to Cheyenne supercomputer, 15M core hours, Ran Feng (PI)
- **National Science Foundation (1903650)**, Collaborative Research: Paleoclimate perspective on the response of Southwest North American rainfall to elevated greenhouse gases, Tripti Bhattacharya (PI), **Ran Feng (co-PI)**, Jessica Tierney (co-PI), \$540K (\$149,540 to UConn).
 - Application for computing resource through University Large allocation request to Cheyenne supercomputer, 21M core hours, Ran Feng (PI)
- **National Science Foundation (1814029)**, Collaborative Research: Integrating tectonics, climate, and mammal diversity, William Holt (PI), Troy Rasbury (co-PI), **Ran Feng (co-PI)**, Catherine Badgley (co-PI), \$1.2M (\$120,735 to UConn).
 - Application for computing resource through University Large allocation request to Cheyenne supercomputer, 3M core hours, Ran Feng (PI)

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INVITED TALKS

- **Feng, R.** Do Pliocene records support weakened Pacific Walker Circulation with elevated CO₂?. Invited monthly seminar at Center for Oldest Ice Exploration. April 1st, 2024.
- **Feng, R.** Revisiting the low-gradient problem with weather-resolving atmosphere-ocean coupled simulations in an invited talk-only EGU session *Towards a temperature-homogenous planet?* (No. EGU23-16511), April 24, 2023.
- **Feng, R.** Past terrestrial hydroclimate sensitivity controlled by Earth system feedbacks, PMIP-WINGS seminar (<https://pmip4.lsce.ipsl.fr/doku.php/wings:index>), Feb 23rd, 2023.
- **Feng, R.** Late Pliocene as an analogue for studying sensitivity of Pacific Walker Circulation to CO₂ forcing, Paleoclimate Advances Webinar Series (<https://www.cesm.ucar.edu/events/webinars/paws/>), Sep 1st, 2022.
- **Feng, R.** Past terrestrial hydroclimate sensitivity controlled by Earth system feedbacks, Paleoclimate Forum (in Chinese), Feb 25th, 2023.
- **Feng, R.** Past terrestrial hydroclimate sensitivity controlled by Earth system feedbacks, Department seminar at UT-Arlington, Mar 24th, 2023.
- **Feng, R.** Past terrestrial hydroclimate sensitivity controlled by Earth system feedbacks, Department Seminar at Central Connecticut State University, Mar 31st, 2023.
- **Feng, R.** and Bhattacharya, T. and the PlioMIP2 colleagues (2022, August). Past terrestrial hydroclimate sensitivity controlled by Earth System Feedbacks, The warm Pliocene: Bridging the geological data and modelling communities, Leeds, United Kingdom, 23–26 Aug 2022, GC10-Pliocene-13, Galileo Conference of European Geosciences Union.
- **Feng, R.** (2022, April). Past terrestrial hydroclimate sensitivity controlled by Earth System Feedbacks. Stony Brook University, department seminar.
- **Feng, R.** and Kathrine Loughney (2021, October). Sensitivity of South American Precipitation to Miocene CO₂ variations and eastern Antarctic Glaciation. GSA Annual Meeting - Geological Society of America (canceled due to session merging).
- **Feng, R.** (2020, April). *The magnitude of Earth System Feedbacks during the mid-Pliocene warm period.* Presentation for the Rowan University department seminar (invited, canceled due to COVID-19).
- **Feng, R.** (2020, March). Constraining the Earth System Feedbacks for the mid-Pliocene. Presentation for the Texas A&M department seminar (invited, canceled due to COVID-19).
- **R. Feng et al.**, Revisiting the problem of simulating Mid-Miocene Climate Optimum with an Earth System Model, EGU, 2019.
- **R. Feng et al.**, Solving the enigma of polar amplification during warm periods of Cenozoic icehouse climate, Aspen Workshop on The Future of Past Climate, 2019.
- **R. Feng et al.**, University of Texas at Austin, DeFord Lecture, 2019.
- **R. Feng et al.**, Seasonally sea ice-free Arctic at present-day CO₂ level 3-million years ago, Yale University, Climate seminar series, 2018.

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- **R. Feng** et al., Seasonally sea ice-free Arctic driven by a clean troposphere 3-million years ago, George Mason University, Department seminar, Oct. 2018.
- **R. Feng** et al., Contributions of Miocene evolution of topography, global sea surface temperature, and CO₂ to paleo-environmental changes across western North America. NSF RCN funded NARLEE workshop, Ann Arbor, Michigan, May 2018.
- **R. Feng** et al., The application of climate models in understanding past climate and topography, NARLEE workshop (supported by National Science Foundation Research Coordination Networks) , Seattle, Washington, 2017.
- **R. Feng** et al., Solving the enigma of strongly amplified mid-Piacenzian (3.264 – 3.025 Ma) Arctic warmth, University of Hong Kong, Department of Earth Sciences, 2017, departmental seminar.
- **R. Feng** et al., Contributions to Pliocene Arctic warmth from a clean atmosphere and enhanced forest fire emissions, 2017, selected to present at PAGES Young Scientist Meeting, oral presentation.
- **R. Feng** et al., Reconstructing terrestrial climate by integrating earth system simulations with proxy interpretations, University of Connecticut, Center for Integrative Geosciences, 2017, departmental seminar.

PRESENTATIONS (STUDENT AUTHOR *)

- Kravette, N.*, **Feng, R.**, & Dvorak, M. (2024). Exploring Radiative Forcing from Pliocene Boundary Conditions and CO₂. Copernicus Meetings.
- Albright, M. G.*, Weitzel, N., Inglis, G. N., Steinig, S., Renoult, M., Reichgelt, T., ... **Feng, R.** (2024). Quantifying the State Dependency of Climate Sensitivity Across Cenozoic Warm Intervals. Copernicus Meetings.
- Jones, D.*, **Feng, R.**, Fan, M., & Zhu, J. (2023). Characterizing mid-Cenozoic aridification with a synthesis of global loessite records and prognostic dust simulations using iCESM1. 2. AGU23.
- Dvorak, M.*, Burls, N., **Feng, R.** (2023). Mid-Pliocene climate forcing, sea-surface temperature pattern effects, and implications for modern-day climate sensitivity. AGU23.
- Zhu, J., Otto-Bliesner, B. L., Brady, E. C., Tierney, J. E., Poulsen, C. J., **Feng, R.**, ... Walters, A. (2023). Early Eocene surface temperatures in an unprecedented high-resolution Earth system simulation. AGU23.
- Tierney, J. E., Burls, N., King, J., Osman, M., Erfani, E., Knapp, S., ... **Feng, R.**, Haywood, A. M. (2023). Patterns of Pacific sea-surface temperatures during the Pliocene. AGU23.
- Bahadori, A., Holt, W. E., Austermann, J., Campbell, L., Calvelage, C. M., Flesch, L. M., ... (including **Feng, R.**) Badgley, C. (2023). Lithosphere and Mantle Dynamics in the Basin and Range Province and Colorado Plateau: Landscape Evolution and Grand Canyon Development. AGU23.

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- Fastovich, D., Bhattacharya, T., **Feng, R.**, Burls, N., Knapp, S., Mayer, T., & Pérez-Angel, L. C. (2023). Choco jet variability during the Pliocene reconstructed from leaf waxes. AGU23.
- **Feng, R.** (2023). *Revisiting the low-gradient problem with weather-resolving atmosphere-ocean coupled simulations* (No. EGU23-16511). Copernicus Meetings.
- Pimenta, M.*, Reichgelt, T., **Feng, R.**, (2023) The Paleoclimatic Range of Southern Hemisphere Relict Conifer Genera. Joint Southeastern & Northeastern Section Meeting of Geological Society of America.
- Feakins, S. J., Peuple, M., Bhattacharya, T., **Feng, R.**, Lowenstein, T. K., & Tierney, J. E. (2022, December). Large Lakes During Warmer and Wetter Pliocene in Southwestern North America. In *AGU Fall Meeting Abstracts* (Vol. 2022, pp. PP35B-08).
- Fastovich, D., Bhattacharya, T., **Feng, R.**, & Mayer, T.* (2022, December). Pliocene variability in the strength of the Pacific Walker Circulation. In *AGU Fall Meeting Abstracts* (Vol. 2022, pp. PP35C-0984).
- Yang, F.*, **Feng, R.**, Lachos Davila, V. H., Kaye-Essien, C., & Kashwan, P. (2022, December). Detect and Predict Heatwaves in India. In *AGU Fall Meeting Abstracts* (Vol. 2022, pp. A44C-02).
- Rubbelke, C. B.*, Bhattacharya, T., Burls, N., Knapp, S., & **Feng, R.** (2022, December). Empirical Mode Decomposition of a new Plio-Pleistocene Leaf Wax Hydroclimate Record from the Benguela Upwelling System. In *AGU Fall Meeting Abstracts* (Vol. 2022, pp. PP42D-1140).
- Albright, M. G.*, **Feng, R.**, Bhattacharya, T., Li, H., Otto-Bliesner, B., Zarzycki, C. and Zhu, J., Mid-Pliocene North American Monsoon in Weather Resolving Coupled Simulations. In *AGU Fall Meeting Abstracts* (Vol. 2022, pp. PP35B-07).
- Albright, M. G.*, **Feng, R.**, Zhu, J., Otto-Bliesner, B., Li, H., and Bhattacharya, T.: Mid-Pliocene North American Monsoon in Weather Resolving Coupled Simulations, The warm Pliocene: Bridging the geological data and modelling communities, Leeds, United Kingdom, 23–26 Aug 2022, GC10-Pliocene-6, <https://doi.org/10.5194/egusphere-gc10-pliocene-6>, 2022.
- Mayer, T.*, **Feng, R.**, Bhattacharya, T., McClymont, E., Ford, H., & Ho, S. L. (2022, August). *Water isotopic imprints of Pacific Walker Circulation responses to CO2 decline during the late Pliocene and early Pleistocene* (No. GC10-Pliocene-32). EGU - Galileo Conference.
- Knapp, S.*, Burls, N., Dee, S., **Feng, R.**, Feakins, S., & Bhattacharya, T. (2022, August). *Isotopic Fingerprints of Early Pliocene-like Sea Surface Temperature Gradients* (No. GC10-Pliocene-3). EGU – Galileo Conference.
- Mayer*, T., **Feng, R.**, Bhattacharya, T., McClymont, E., Ford, H. and Ho, S.L., 2022. Water isotopic imprints of Pacific Walker Circulation responses to CO2 decline during the late Pliocene and early Pleistocene (No. GC10-Pliocene-32). Copernicus Meetings.
- Otto-Bliesner, B. L., Zhu, J., Tierney, J., **Feng, R.**, Tabor, C., Nusbaumer, J., Walters, A., Brady, E., and Sun, C.: Modeling the Mid-Pliocene at High Resolution, The warm Pliocene: Bridging

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the geological data and modelling communities, Leeds, United Kingdom, 23–26 Aug 2022, GC10-Pliocene-14, <https://doi.org/10.5194/egusphere-gc10-pliocene-14>, 2022.

- Bhattacharya, T. and **Feng, R.**, 2022. Molecular perspectives on Pliocene subtropical hydroclimate (No. GC10-Pliocene-9). Copernicus Meetings.
- Knapp, S., Burls, N., Dee, S., **Feng, R.**, Feakins, S. and Bhattacharya, T., 2022. Isotopic Fingerprints of Early Pliocene-like Sea Surface Temperature Gradients (No. GC10-Pliocene-3). Copernicus Meetings.
- Mayer*, T., **Feng, R.** and Bhattacharya, T., 2022. Water isotopic imprints of the Pliocene Pacific Walker Circulation (No. EGU22-5439). Copernicus Meetings.
- Albright*, M.G., **Feng, R.**, Zhu, J., Otto-Bliesner, B., Li, H. and Bhattacharya, T., 2022. Mid-Pliocene North American Monsoon in Weather Resolving Coupled Simulations (No. EGU22-5586). Copernicus Meetings.
- Jepson, G., Carrapa, B., Gillespie, J., **Feng, R.**, DeCelles, P., Tabor, C., & Zhu, J. (2021). Climate as the great equalizer of continental-scale erosion. Proceedings from Annual meeting of European Geosciences Union.
- **Feng, R.**, Bhattacharya, T., Otto-bliesner, B., & Brady, E. (2021). Mid-Pliocene mesic subtropical hydroclimate over continents driven by land surface changes. Proceedings from Annual meeting of European Geosciences Union.
- **Feng, R.**, Otto-Bliesner, B. L., Brady, E. C., & Bhattacharya, T. (2020). Explicitly simulating tropical cyclones of the mid-Piacenzian in an atmosphere-ocean coupled model. Proceedings from AGU Fall Meeting 2020.
- Bhattacharya, T., & **Feng, R.** (2020). Pliocene subtropical hydroclimate linked to monsoon dynamics. Proceedings from AGU Fall Meeting 2020.
- Brady, E. C., Otto-Bliesner, B. L., Zhu, J., **Feng, R.**, Tomas, R. A., DiNezio, P. N., Lofverstrom, M., & Rosenbloom, N. A. (2020). Sensitivity of the Atlantic Meridional Overturning Circulation to Different Paleoclimate States Simulated with the Community Earth System Model. Proceedings from AGU Fall Meeting 2020.
- Rugenstein, J. K. C., Scheff, J., **Feng, R.**, & Burls, N. (2020). Understanding the Terrestrial Hydrological Response to Atmospheric CO₂: Lessons from the Cenozoic and Insights into the Future II Posters. Proceedings from AGU Fall Meeting 2020.
- **Feng, R.**, B. Otto-Bliesner, E. Brady. Contributions of aerosol-cloud interactions to mid-Piacenzian seasonally sea ice-free Arctic Ocean. December, 2019, annual meeting of the American Geophysical Union, poster presentation.
- Clementz, M., Carrapa, B., **Feng, R.** (2019, October). Ecological Response to Late Miocene cooling in South America. Meeting of the Society of Vertebrate Paleontology 2019, oral presentation.
- **R. Feng** et al., Dust-climate feedback to surface uplift and pCO₂ drawdown at the Eocene-Oligocene transition, AGU, 2018, poster presentation.

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- J. Tierney, A. Haywood, **R. Feng**, et al, Patterns of warmth in the Pliocene past and the imminent future (Invited), AGU, 2018, oral presentation.
- M. Fan, **R. Feng** et al., Regional uplift and global cooling caused diachronous aridification in the western U.S. during the late Eocene-early Oligocene. International Sedimentological Congress, 2018, oral presentation.
- **R. Feng** et al., Solving the enigma of Arctic amplification during the Mid-Piacenzian Warm Period using the new Community Earth System Model, first meeting of Paleoclimate Model Intercomparison Project Phase 4, Stockholm University, 2017, Sep, talk & poster.
- **R. Feng** et al., Tropical cyclones and climate of the mid-Piacenzian warm period in a super high-resolution atmosphere-ocean coupled simulation, AGU, Dec. 2017, poster presentation.
- **R. Feng**, Bette Otto-Bliesner, Tamara Fletcher and Ashley Ballantyne, Esther Brady. Contributions to Pliocene Arctic warmth from a clean atmosphere and enhanced forest fire emissions. AGU fall meeting, 2016, poster presentation.
- T. Fletcher, K. J. Brown, L. Warden, A. Z. Csank, **R. Feng**, P. E. Higuera, N. Rybczynski, A. Ballantyne. Climate-Vegetation-Fire Interactions: Pieces in the Pliocene Polar Puzzle. AGU fall meeting, 2016, poster presentation.
- E. C. Brady, B. L. Otto-Bliesner, **R. Feng**, S. Stevenson, N. A. Rosenbloom. Importance of Orbital Forcing for Pliocene ENSO. AGU fall meeting, 2016, poster presentation.
- B. Otto-Bliesner, E. Brady, **R. Feng** et al (invited talk). Pliocene Climates: The Nature of the Problem Revisited, 2015, AGU.
- C., J. Poulsen, **R. Feng**, and R. P. Fiorella (invited talk). The Role of Topography on Continental Water Cycling and Water Stable Isotope Compositions over Geological Time Scales. 2014, AGU.
- **R. Feng** and C. J. Poulsen, 2014. Factors Contributing to the Late Cenozoic Cooling and Aridification of Southwestern North America. Dec 17th, 2014. Annual Meeting of American Geophysical Union (AGU), poster presentation.
- J. Li, T. A. Ehlers, M. Werner, S. Mutz, C. Steger, H. Paeth, C. J. Poulsen, and **R. Feng**, 2014. Late Quaternary Climate and Precipitation $\delta^{18}\text{O}$ variations over the Tibetan Plateau from Paleoclimate Modeling. Dec 17th, 2014. Annual Meeting of American Geophysical Union (AGU), poster presentation.
- **R. Feng** and C. J. Poulsen, 2013, Dissipation of El Niño-like climate conditions through Andean uplift. Dec 11th, 2013, Annual meeting of American Geophysical Union (AGU), oral presentation.
- **R. Feng**, C. J. Poulsen and M. Werner, 2012, Reconstructing early Cenozoic topography of the North American Cordillera from authigenic mineral $\delta^{18}\text{O}$ – Moving beyond the Rayleigh distillation. Dec 4th, 2012, Annual meeting of American Geophysical Union (AGU), poster presentation.

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TEACHING AND ADVISING

COURSES

- GSCI 5150/4150: Applied Data Analysis in Earth Sciences (using R) (Designer and instructor)
 - Student evaluation of instruction: 4.8/5 in Fall 2023, 4.0/5.0 in Fall 2022, 4.0/5.0 in Fall 2021, 5.0/5.0 in Spring 2021
- GSCI 4810/5810: Modeling our changing Atmosphere and Ocean (Designer and instructor)
 - Student evaluation of instruction: 4.0/5.0 in Spring 2022, 5.0/5.0 in Fall 2020, 3.5/5.0 in Fall 2019
- GSCI 1050/1051: Earth's Dynamic Environment (prior to the tenure track appointment)

GRADUATE ADVISEES

As Major Advisor:

<u>student name</u>	<u>degree sought</u>	<u>entry date</u>	<u>graduation date</u>
Noah Krevette	PhD	09/2023	
Dylan Jones	MS	09/2022	
Mary Grace Albright	PhD	09/2021	
Theodor Mayer	MS	09/2021	06/2023

As Associate Advisor:

<u>student name</u>	<u>degree sought</u>	<u>entry date</u>	<u>graduation date</u>
Joseph Schnaubelt	PhD	09/2022	
Julian Biddle	PhD	09/2021	
Shixiong Hu	PhD	09/2021	
Hamida Ngoma Nadoya	PhD	09/2021	
Taylor Deneau	PhD	09/2021	
Claire Rubbelke (Syracuse University)	PhD	09/2021	
Scott Knapp (George Mason University)	PhD	09/2021	
Yue Yin	PhD	09/2019	03/2023
Oumaima Lamaakel	PhD	09/2019	08/2023
Fusheng Yang	PhD	09/2019	
Elena Robakiewicz	PhD	09/2018	08/2023
Junya Wu	PhD	09/2018	07/2023

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UNDERGRADUATE ADVISEES

<u>Student name</u>	<u>Date</u>	<u>Role/Project</u>
Maike Hermle	<u>2023 - 2024</u>	Explore the contribution of mid-Pliocene tropical cyclones to meridional heat transport in a mesoscale weather resolving high resolution climate simulation (research)
Patrick Healey	<u>2023 - 2024</u>	Academic Advisor
Michael Magut	<u>2023 - 2024</u>	Academic Advisor
Allison Rivera	<u>2022 - 2023</u>	Academic Advisor
Thomas Anderson	<u>2022 - 2023</u>	Academic Advisor
Michael Pimenta	<u>2022 fall and 2023 spring</u>	The Paleoclimatic Range of Southern Hemisphere Relict Conifer Genera (research)
Eric Habjan	<u>2022 summer</u>	Detecting future Pacific Walker circulation changes from CMIP6 climate projections (data analysis)
Rebecca Cho (through Simons Summer Research program)	<u>2021 summer</u>	<u>Integrating simulated Miocene precipitation data with a landscape evolution model (BadLands)</u>
Nick Rock	<u>2021 summer</u>	<u>Explore variability of Pacific Walker circulation (literature review)</u>
Chris Geiger	<u>2019 fall and 2020 spring</u>	<u>Develop a mapping tool for paleoclimate applications to generate weights for interchanging energy, water, and momentum fluxes between the atmosphere and ocean component of a climate model</u>

PROFESSIONAL SERVICE AND OUTREACH

UNIVERSITY SERVICE

NSF CAREER Panel Q&A	2024
Department Seminar Coordinator (sole coordinator)	2019 – present
Department Representative and Advisor for BA in Data Analysis Major	2023 – present
Department Merit Committee (Chair in 2024)	2022, 2024
Department Faculty Search Committee	2020, 2022, 2024
Earth Sciences Graduate Committee	2019-2022
CLAS DEI Advisory Committee	2022 - 2023

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Department DEI Committee	2021 – 2022
Development and Coordination of Climate Minor	2022-present
McNair STEM seminar	2022
UConn Research Connections Exhibitor	2021, 2022
Ad-hoc Department SET+ Policy Committee	2020-2021
CLAS Data Science Initiative	2020-2023
Institute of the Environment Affiliate Member	2019-present
Center for Environmental Science and Engineering Affiliate Member	2018-present
Atmospheric Sciences Group member	2018-present
Big Data Task Force Committee Member	2019
Open House: Department Rep	2019, 2020, 2022

OUTREACH

UConn pre-college high school summer workshop	2021, 2022, 2024
AGU OSPA Judge	2016, 2019, 2020
Mentor for NCAR-SOARS program	2016
Volunteer at NCAR Super Science Saturday	2015, 2016
Mentor at NCAR Undergraduate Leadership Workshop	2015

EDITORSHIP

Journal of Geophysical Research-Atmospheres (Associate editor)	2022-present
Global and Planetary Change (Editorial Board)	2020-present
Climate of the past (Associate editor)	2018-present

EXTERNAL COMMITTEES

Steering committee member for Pliocene Model Intercomparison Project	2022-present
Co-Chair for Community Earth System Model- paleoclimate working group	2022-2024
Steering committee member for Paleoclimate Advances Webinar Series (PAWS)	2022-present

AD HOC REVIEWER

National Science Foundation, European Research Council, Irish Research Council, UK Natural Environment Research Council, JGR-Atmospheres, Journal of Climate, Nature Geoscience, Earth and Planetary Science Letters, Climate of the Past, Geophysical Research Letters, Climate Dynamics, Geology, Nature Communications, Paleoceanography and Paleoclimatology, Journal of Geophysical Research-Atmospheres, Earth-Science Reviews, Earth System Dynamics, Geoscientific Model Development, Earth System Dynamics

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CONVENER

2024 European Geosciences Union annual conference CL1.1.1, Deep-time climate change and carbon cycling: insights from models and proxies, Co-convener with Liu, Y. (main convener), Jean-Baptiste Ladant, Yannick Donnadieu, Pam Vervoort, Hana Jurikova.

2023 American Geophysical Union annual conference PP-21E, Hydroclimate Lessons from Cenozoic Paleoclimates, Co-convener with Tripti Bhattacharya (main convener), Tyler Kukla, and Dan Ibarra

2023 Community Earth System Model winter workshop – paleoclimate session, Co-Convener with Jiang Zhu, Sophia Macarewich and Bette Otto-Bliesner (main convener)

2022 American Geophysical Union annual conference PP35 - Hydroclimate Lessons from Cenozoic Paleoclimates, Co-Convener with Tripti Bhattacharya (main convener), and Tyler Kukla

2021 American Geophysical Union annual conference PP13 - Hydroclimate Lessons from Cenozoic Paleoclimates, Co-Convener with Tripti Bhattacharya (main convener), Tyler Kukla, and Dan Ibarra

2020 American Geophysical Union annual conference PP27 - Understanding the Terrestrial Hydrological Response to Atmospheric CO₂: Lessons from the Cenozoic and Insights into the Future, Co-Convener with Jeremy Rugestein (main convener), Jacob Scheff, and Natalie Burls

2019 American Geophysical Union annual conference - World Climate Research Programme (WCRP) Climate Science week, session on “Climate Change in Geological Records and Earth System Models: Lessons for the Future from CMIP6 Paleoclimate Efforts”, Co-Convener with Bette Otto-Bliesner (main convener)

MEDIA COVERAGE

At Wired Magazine:

- “Pliocene-Like Monsoons Are Returning to the American Southwest”

NSF:

- https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=298483&org=NSF

Earth.com:

- Prehistoric atmospheric changes led to South American mammal diversity

Science Daily:

- “Past is Key to Predicting Future Climate, Scientists Say”
- “Ice Sheet Retreat and Forest Expansion Turned Ancient Subtropical Drylands into Oases”
- “Using Monsoons of the Past to Predict Climate Conditions of the Future”

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- “Clues about the Northeast’s Past and Future Climate from Plant Fossils”

UConn Today:

- “Past is Key to Predicting Future Climate, Scientists Say”
- “*Ice Sheet Retreat and Forest Expansion Turned Ancient Subtropical Drylands into Oases*”
- “Using Monsoons of the Past to Predict Climate Conditions of the Future”
- “Clues about the Northeast’s Past and Future Climate from Plant Fossils”
- “Geological record provides a window to past flora and fauna”

AWARDS

- “Excellent in teaching”, University of Connecticut, 2021.
- PAGES (PAST Global changES) Young Scientist Meeting travel support, € 975, 2017.
- Early Career Scientist travel grant from the University of Leeds, \$1,600, 2016.
- Early Career Scientist travel grant from NCAR, \$1,000, 2015, 2016.
- Rackham Graduate Student Travel Grant, \$700, 2012, 2013, 2014
- Rackham International Student Fellowship, \$10,000, May-Sep, 2012
- Awarded poster by Students’ Choice of Michigan Geophysical Union, April 13th, 2012
- Early admission (entrance exam waived) to the graduate program at the Institute of Atmospheric Physics, Chinese Academy of Sciences, 2007
- Outstanding graduate, Nanjing University, 2007
- People’s Scholarship (top 5%, 10%, 10% of GPA ranking), Nanjing University, 2006, 2005, 2004.