

CURRICULUM VITÆ
RACHEL L. LUPIEN (she/her)

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Work Experience

Assistant Professor, Aarhus University Aarhus, Denmark
September 2022 – Present, Paleoclimatology and Paleoclimate Research Group

Postdoctoral Research Scientist, Lamont-Doherty Earth Observatory Palisades, NY
July 2019 – August 2022, Peter de Menocal and Kevin Uno, Organic Geochemistry Lab

Graduate Student Researcher, Brown University Providence, RI
August 2014 - May 2019, James Russell, Organic Geochemistry Lab

Research Assistant, Lamont-Doherty Earth Observatory Palisades, NY
August 2012 - July 2014, Steven Goldstein, Radiogenic Isotope Lab

Education

BROWN UNIVERSITY Providence, RI
May 2019 Ph.D., Earth, Environmental, and Planetary Sciences
Advisor: James M. Russell | Outside Reader: Rick Potts of the Smithsonian Human Origins Program
Dissertation: *The Plio-Pleistocene Climate History of East Africa and the Role of Environmental Change on Human Evolution: Studies of Leaf Wax Isotopes from Paleolake Sediment*

BROWN UNIVERSITY Providence, RI
May 2016 M.Sc., Earth, Environmental, and Planetary Sciences
Advisor: James M. Russell
Thesis: *Leaf wax biomarker record of rainfall from West Turkana, Kenya*

AMHERST COLLEGE Amherst, MA
May 2012 B.A., (cum Laude) Geology
Advisor: Tekla A. Harms
Thesis: *New Constraints on Cooling Ages for Proterozoic Accreted Arc and Metamorphic Core Zone Rocks of the Big Sky Orogen in Southwestern Montana*

Research Funding

\$900,685 / 6.786.382 DKK in total

Aarhus University Forskningsfond Recruiting Grant: Climate Change and Human Evolution: Biomarker Studies from Lake and Marine Archives, 2022: 2,000,000 DKK.

NSF-OCE MG&G: Terrestrial Organics since The Oligocene (TOTO): The Rains Down in Africa, 2022-2025: Lead PI, \$613,617.

Columbia Climate Center: Climate thresholds, environmental feedbacks, and human evolution: A combined geochemical and machine learning approach, 2020: PI, \$10,000.

Institute at Brown for Env. and Society: Graduate Research Grant, 2017 and 2018: \$4,950, \$5,000.

Geological Society of America: Graduate Student Research Grant, 2016: \$1,875.

Publications

1. **Lupien, R.L.**, Russell, J.M., Pearson, E.J., Castañeda, I.S., Asrat, A., Foerster, V., Lamb, H., Roberts, H.M., Schäbitz, F., Trauth, M.H., Beck, C.C., Feibel, C.S., Kingston, J.D., Cohen, A.C. (2022). Orbital controls on eastern African hydroclimate in the Pleistocene. *Scientific Reports*. doi:10.1038/s41598-022-06826-z

2. Liang, J., Guo, Y., Xie, H., Richter, N., Vachula, R.S., **Lupien, R.L.**, Zhao, B., Wang, M., Yao, Y., Li, X., Zhou, H., Cao, X., Hou, J., Liu, J., Russell, J.M. (2022). Calibration and Application of Branched GDGTs to Tibetan Lake Sediments: The Influence of Temperature on the Fall of the Guge Kingdom in Western Tibet, China. *Paleoceanography and Paleoclimatology*. doi:10.1029/2021PA004393
3. Cohen, A.C., Du, A., Rowan, J., Yost, C.L., Billingsley, A.L., Campisano, C.J., Brown, E., Deino, A.L., Feibel, C.S., Grant, K., Kingston, J.D., **Lupien, R.L.**, Muiruri, V., Owen, R.B., Reed, K.E., Russell, J.M., Stockhecke, M. (2022). Plio-Pleistocene environmental variability in Africa and its implications for mammalian evolution. *Proceedings of The National Academy of Sciences*. doi:10.1073/pnas.2107393119
4. Cohen, A.C., Campisano, C., Arrowsmith, R., Asrat, A., Beck, C., Behrensmeyer, A.K., Deino, A., Feibel, C., Foerster, V., Kingston, J., Lamb, H., Lowenstein, T., **Lupien, R.L.**, Muiruri, V., Olago, D., Owen, R.B., Potts, R., Russell, J.M., Schaebitz, F., Stone, J., Trauth, M., Yost, C., and the Hominin Sites and Paleolakes Drilling Project (HSPDP) science team (2022). Reconstructing the Environmental Context of Human Origins in Eastern Africa through Scientific Drilling. *Annual Review of Earth and Planetary Sciences*. doi:10.1146/annurev-earth-031920-081947
5. Yost, C.L., **Lupien, R.L.**, Beck, C., Feibel, C., Archer, S., Cohen, A.S. (2021). Orbital influence on precipitation, fire, and grass community composition from 1.87 to 1.38 Ma in the Turkana Basin, Kenya. *Frontiers in Earth Science*. doi:10.3389/feart.2021.568646
6. **Lupien, R.L.**, Russell, J.M., Subramanian, A., Kinyanjui, R., Beverly, E.J., Uno, K., deMenocal, P., Potts, R. (2021). Eastern African environmental variation and its role in the evolution and cultural change in *Homo* over the last 1 million years. *Journal of Human Evolution*, 157. doi:10.1016/j.jhevol.2021.103028
7. Liang, J., **Lupien, R.L.**, Xie, H., Vachula, R.S., Stevenson, M.A., Han, B-P., Lin, Q., He, Y., Wang, M., Liang, P., Huang, Y., McGowen, S., Hou, J., Russell, J.M. (2021) Lake ecosystem on the Qinghai-Tibetan Plateau severely altered by climatic warming and human activity. *Palaeogeography, Palaeoclimatology, Palaeoecology*. doi:10.1016/j.palaeo.2021.110509
8. **Lupien, R.L.**, Russell, J.M., Yost, C.L., Kingston, J.D., Deino, A.L., Logan, J., Schuh, A., Cohen, A.S. (2021). Vegetation change in the Baringo Basin, East Africa across the onset of Northern Hemisphere glaciation 3.3–2.6 Ma. In Special Issue: A high resolution, multi-proxy record of Pliocene hominin environments in the Kenya Rift Valley: Analysis of the Baringo-Tugen Hills-Barsemoi (BTB) Drill Core. *Palaeogeography, Palaeoclimatology, Palaeoecology*. doi:10.1016/j.palaeo.2019.109426
9. Potts, R., Dommoin, R., Moerman, J.W., Behrensmeyer, A.K., Deino, A.L., Beverly, E.J., Brown, E.T., Deocampo, D., Kinyanjui, R., **Lupien, R.L.**, Owen, R.B., Rabideaux, N., Riedl, S., Russell, J.M., Stockhecke, M., deMenocal, P., Faith, J.T., Garcin, Y., Noren, A., Scott, J.J., Western, D., Bright, J., Clark, J.B., Cohern, A.S., Heil Jr., C.W., Keller, C.B., King, J., Levin, N., Brady, K., Muiruri, V., Renaut, R., Rucina, S.M., Uno, K. (2020). Increased ecological resource variability during a critical transition in hominin evolution. *Science Advances*, 6:43. doi:10.1126/sciadv.abc8975
10. **Lupien, R.L.**, Russell, J.M., Grove, M., Beck, C.C., Feibel, C.S., Cohen, A.S. (2020). Abrupt climate change and its impacts on hominin evolution during the early Pleistocene in the Turkana Basin, Kenya. *Quaternary Science Reviews*, 245. doi:10.1016/j.quascirev.2020.106531
11. Liang, J., Russell, J.M., Xie, H., **Lupien, R.L.**, Si, G., Wang, J., Hou, J., Zhang, G. (2019). Vegetation effects on temperature calibrations of branched glycerol dialkyl glycerol tetraether (brGDGTs) in soils. *Organic Geochemistry*, 127, 1-11. doi:10.1016/j.orggeochem.2018.10.010
12. **Lupien, R.L.**, Russell, J.M., Feibel, C., Beck, C., Castañeda, I., Deino, A., Cohen, A.S. (2018). Reply to Comments by Nutz & Schuster (2018) on: “A leaf wax biomarker record of early Pleistocene hydroclimate from West Turkana, Kenya”. *Quaternary Science Reviews*, 201C, 508-510. doi:10.1016/j.quascirev.2018.10.015
13. **Lupien, R.L.**, Russell, J.M., Feibel, C., Beck, C., Castañeda, I., Deino, A.L., Cohen, A.S. (2018). A leaf wax biomarker record of early Pleistocene hydroclimate from West Turkana, Kenya. *Quaternary Science Reviews*, 186, 225-235. doi:10.1016/j.quascirev.2018.03.012

Pedagogical Training

2019-2020 **Inclusive Teaching: Supporting All Students in the College Classroom**
ColumbiaX: Columbia University Center for Teaching and Learning: [Verified Certificate](#)

2014-2015 **Reflective Teaching**
The Sheridan Center for Teaching, Brown University

Teaching

Teaching Assistant, Columbia in Kenya, Columbia and Princeton Universities
2020 Spring *Terrestrial Paleoecology*
Three-week field course for Columbia and Princeton undergraduate students as part of a Tropical Biology and Sustainability semester abroad in Kenya

Invited Guest Lecturer
2021 Spring *Middlebury College, Hamilton College, University of Richmond*

Instructor, 2018 STEM II Program, Brown University
2018 Summer *Human Evolution and the Environment*
Two-week intensive pre-college science course on climate change and human evolution

Teaching Assistant, Earth, Environment, and Planetary Sciences, Brown University
2016 Fall *Stratigraphy and Sedimentology*
2016 Spring *Earth: Evolution of a Habitable Planet*

Invited Presentations

1. Pal(a)eoPERCS, *Virtual Seminar Series*, September 2022
2. Aarhus University, *Department of Geoscience*, March 2022
3. University of Utah, *Geology & Geophysics*, March 2022
4. George Washington University, *Center for the Advanced Study of Human Paleobiology*, October 2021
5. University of California, *Santa Cruz, Paleoclimate Group, Department of Ocean Sciences*, May 2021
6. Princeton University, *Environmental Geology & Geochemistry Seminar Lecture Series, Department of Geosciences*, October 2020
7. Binghamton University State University of New York, *Invited Speaker Seminar, Department of Geological Sciences*, April 2020 – Canceled due to COVID-19
8. Lamont-Doherty Earth Observatory, *Biology and Paleo Environment Seminar*, April 2020
9. Massachusetts Institute of Technology, *Sack Lunch Seminar Series, Department of Earth, Atmospheric and Planetary Sciences*, March 2019
10. Lamont-Doherty Earth Observatory, *Biology and Paleo Environment Seminar*, October 2016

Academic Mentoring

PhD and Masters Level

Postdoc-Grad Student Mentoring, LDEO: Organized and raised funds to host a professional development series for graduate students by postdocs

Mock Prelim Exam Committee Member, Brown University: Nora Richter, Ariel Deutsch, Ashley Palumbo, Rachel Sheppard, Abigale Bodner, Jenna Pearson, Richard Vachula, Sloane Garelick, Jennifer Kowalczyk

1st Year Graduate Mentoring Program Mentor, Brown University, 2017-2019

Bachelors and High School Level

Organic Geochemistry Laboratory, LDEO, 2021: Juliet Tochtermann (thesis student), Vinay Bijoor, Mohammad Nadir Qureshi Torres

Lamont Summer Intern Program Mentor, LDEO, 2020: Cole Hazan, Queen's University, Time Series Analyses of Northeast African Hydroclimate Variability

Undergraduate Thesis Advisor, Brown University, 2018: Avinash Subramanian, Statistical Analysis of East African Paleoclimate Variations During the Late Pleistocene, and Implications for Human Evolution

Undergraduate Teaching and Research Award Advisor, Brown University, 2017: Tristan Reinecke

Science & Technological Investigative Research, 2017: Dheivanai Moorthy, Suffern High School

Professional Development

2021 LinkedEarth PaleoHackathon, Virtual Python Workshop
2018 Advanced Climate Dynamics Course (ACDC), Finse, Norway
2017 International Continental Drilling Project (ICDP) Course, Windischeschenbach, Germany
2016 Urbino Summer School in Paleoclimatology (USSP), Urbino, Italy

Service

Professional

Advisory Panel for [The PATCH Lab](#), a web app for archiving and discovering stable isotope data

Reviewer of grant proposals for NSF-P2C2

Reviewer of journal manuscripts for *Nature*, *Nature Communications Earth & Environment*; *PNAS*; *Geophysical Research Letters*; *Quaternary Science Reviews*; *Climate of the Past*; *Palaeogeography, Palaeoclimatology, Palaeoecology*; *Organic Geochemistry*; *Journal of Great Lakes Research*; *Climate Dynamics*; *Biogeosciences*; *Earth-Science Reviews*; *Paleoceanography and Paleoclimatology*

Session Convener, 2022, 2020, 2018 AGU Fall Meeting; 2023 EGU Annual Meeting

Departmental

Research Committee, Member, 2022-present, Aarhus University

Mentoring and JEDI Award, Committee Member, 2021-2022, LDEO

Unlearning Racism in Geoscience (URGE), Leader of Lamont Pod, 2021-2022, LDEO

Executive Committee, Postdoc Representative Alternate, 2021-2022, LDEO

Biology and Paleo Environment Seminar Series, Co-Chair, 2019-2021, LDEO

Graduate Women in Science and Engineering, Leader, 2015-2018, Brown University

Diversity Working Group, Member, 2015-2019, Brown University

Geology Graduate Student Group, President, 2015-2016, Brown University

Community

Podcast, Host of [How We Got Here](#) about the wide range of careers combatting the climate crisis

Public Talks, Bolton Street Synagogue 60+ Group, Nerd Night Rhode Island

Tutor, Columbia Volunteer Tutor Program for affiliates affected by the COVID-19 crisis, 2020

Science Teacher, Vartan Gregorian Elementary School, Providence, RI, 2014-2017

Scientist, Skype-A-Scientist, 2017-2021

Member and Social Media, 500 Women Scientists Providence Pod, 2017-2019

News & Media

2022 Quoted in [Science News](#) article about Timmermann et al., 2022, *Nature*
2021 [American Scientist](#) article about Lupien et al., 2021, *Journal of Human Evolution*
Quoted in [Sapiens.org](#), [The Atlantic](#), and [Smithsonian Magazine](#)
Wrote a '[Behind the Paper](#)' for Nature Ecology and Evolution Community
Featured as guest on [Common Descent Podcast](#) episode on Paleoclimatology
Featured as guest on [Twitch](#) to discuss Lupien et al., 2020
2020 Quoted in [State of the Planet](#) on a recent paper, which was also covered in the [Smithsonian](#), [National Geographic](#), [Science Magazine](#), and more
Featured in [Time Scavengers](#) Meet-the-Scientist
Featured in [Center for Climate and Life](#) for setting up PERMILab in Kenya

Fellowships and Awards

2017-2018 Institute at Brown for Environment and Society Graduate Fellowship, Brown University
2016 Urbino Summer School of Paleoclimatology Travel Grant and Stipend, NSF
2014-2015 Charles Wilson Brown Fellowship, Brown University
2011 Richard M. Foose Award, Amherst College

Conference Sessions as Convenor

1. EGU General Assembly 2023: Climate and environmental change: Africa's past, present and future
2. AGU Fall Meeting 2022: Hydroclimate Lessons from Cenozoic Paleoclimates
3. AGU Fall Meeting 2020: New Insights into African Paleoclimate Across Time and Space from Analytical and Numerical Methods
4. AGU Fall Meeting 2018: High-Resolution Paleoclimate and Paleoenvironmental Records from Africa: Providing Context for Human Evolution and Dispersal from the Pliocene to the Present

Conference Abstracts

* denotes mentee | ^ denotes invited

1. ^**Lupien, R.L.**, Uno, K., deMenocal, P., Late Pleistocene drivers of climate and vegetation in the Western Sahel from leaf wax biomarker isotopes. American Quaternary Association Biannual Meeting. Madison, WI.
2. Mitsunaga, B., Ouertani, S., **Lupien, R.L.**, Stubbs, B., Denio, A., Kingston, J., Stockhecke, M., Brown, E.T., Russell, J.M., Tropical East Africa became wetter at 3 Ma: A compound-specific leaf wax biomarker record from the Baringo-Tugen Hills-Barsemoi Basin, Kenya. 2022 Past Global Changes Open Science Meeting.
3. Cornelissen, H., **Lupien, R. L.**, Fletcher, W., Hughes, P., Bell, B., Rhoujjati, A., Ewague, A., Fink, D., 2022. Ancient steroids: Human faecal signals and environmental data from a Holocene sediment record of the Yagour Plateau, High Atlas, Morocco. EGU General Assembly 2022. Vienna, Austria.
4. **Lupien, R.L.**, Uno, K.T., deMenocal, P.B., Rose, C., Polissar, P., 2021. Northeast African climate cycles from leaf wax isotopes in Plio-Pleistocene Mediterranean sapropels. 2021 AGU Fall Meeting. New Orleans, LA.
5. *Tochterman, J., **Lupien, R.L.**, Uno, K.T., deMenocal, P.B., Polissar, P., 2021. Implications for Cenozoic environmental trends and variability from leaf wax *n*-alkane distributions in Western Africa. 2021 AGU Fall Meeting. New Orleans, LA.
6. Mitsunaga, B., Ouertani, S., **Lupien, R.L.**, Stubbs, B., Denio, A., Kingston, J., Stockhecke, M., Brown, E.T., Russell, J.M., A lipid biomarker record of Plio-Pleistocene hydroclimate change from the Baringo-Tugen Hills-Barsemoi Basin, Kenya. 2021 AGU Fall Meeting. New Orleans, LA.
7. **Lupien, R.L.**, Uno, K.T., Habicht, H., deMenocal, P.B., 2020. West African hydroclimate trends and variability during the Cenozoic. 2020 AGU Fall Meeting.
8. *Hazan, C., **Lupien, R.L.**, Uno, K.T., deMenocal, P.B., Polissar, P., 2020. Time series analyses of northeast African hydroclimate variability. 2020 AGU Fall Meeting.
9. Schäbitz, F., Foerster, V., Asrat, A., Cohen, A.S., Chapot, M.S., Dean, J.R., Deino, A., Deocampo, D., Düsing, W., Günter, C., Junginger, A., Kaboth-Bahr, S., Lamb, H., Lane, C., Leng, M., Opitz, S., **Lupien, R.L.**, Roberts, H., Ramsey, C., Russell, J., Pearson, E., Trauth, M.H., Vidal, C., Viehberg, F., Vogelsang, R., and HSPDP, 2020. The paleoclimate of Chew Bahir, Ethiopia, during the last 200 kyr: Human responses to hydroclimate fluctuations. 2020 AGU Fall Meeting.
10. ^**Lupien, R.L.**, deMenocal, P.B., Uno, K.T., Rose, C., Polissar, P., 2020. Northeast African Plio-Pleistocene climate patterns using plant wax isotopes from Mediterranean sapropels. 2020 GSA Annual Meeting.
11. Schäbitz, F., Asrat, A., Cohen, A.S., Dean, J., Deino, A., Deocampo, D., Düsing, W., Foerster, V., Günter, C., Junginger, A., Lamb, H., Lane, C., Leng, M., **Lupien, R.L.**, Roberts, H., Ramsey, C., Russell, J., Pearson, E., Vidal, C., Trauth, M., and HSPDP, 2020. Good times for leaving home? The paleoenvironment of Chew Bahir in south Ethiopia: implications for human evolution, dispersal and technological innovation. EGU General Assembly 2020. Vienna, Austria.

12. Yehudai, M., Goldstein, S.L., Pena, L.D., Jaume-Seguí, M., Kim, J., Hartman, A.E., **Lupien, R.L.**, 2020. The Atlantic Meridional Overturning Circulation from Nd Isotopes. EGU General Assembly 2020. Vienna, Austria.
13. **Lupien, R.L.**, Russell, J.M., Subramanian, A., Uno, K., deMenocal, P., Potts, R., 2019. The Role of Terrestrial Vegetation Variations in Hominin Evolution and behavioral Change in East Africa Throughout the Last One Million Years. 2019 AGU Fall Meeting, San Francisco, CA.
14. Mitsunaga, B., Stubbs, B., **Lupien, R.L.**, Deino, A., Kingston, J., Stockhecke, M., Brown, E., Russell, J.M., 2019. A Leaf Wax Biomarker Record of Plio-Pleistocene Environment Change from the Baringo Basin (Tugen Hills), Kenya. 2019 AGU Fall Meeting, San Francisco, CA.
15. Goldstein, S.L., Pena, L.P., Yehudai, M., Jaume-Seguí, M., Kim, J., Knudson, K., Basak, C., Hartman, A., **Lupien, R.L.**, 2019. AMOC Variability over the Last ~2 Ma from a North-South Atlantic Transect Using Nd Isotopes. 2019 AGU Fall Meeting, San Francisco, CA.
16. Goldstein, S.L., Pena, L.P., Yehudai, M., Kim, J., Jaume-Seguí, M., Knudson, K., Basak, C., Hartman, A., **Lupien, R.L.**, 2019. A 1.5 Myr History of the Atlantic Meridional Overturning Circulation from Nd isotopes. Goldschmidt 2019, Barcelona, Spain.
17. Yehudai, M., Goldstein, S.L., Pena, L.D., Jaume-Seguí, M., Kim, J., Hartman, A.E., **Lupien, R.L.**, 2019. Modes of the Atlantic Meridional Overturning Circulation from Nd Isotopes. Goldschmidt 2019, Barcelona, Spain.
18. Lamb, H., Asrat, A., Ramsey, C.B., Cohen, A., Chapot, M., Davies, S., Dean, J., Deino, A., Düsing, W., Foerster, V., Grove, M., Junginger, A., Lane, C., Leng, M., **Lupien, R.L.**, Pearson, E., Roberts, H., Russell, J., Schäbitz, F., Trauth, M., Vidal, C., 2019. The 600,000-year palaeoenvironmental record from Chew Bahir, Ethiopia: testing hypotheses of climate change and human origins. 2019 INQUA 20th Congress, Dublin, Ireland.
19. Cohen, A.S., Billingsley, A., Campisano, C., **Lupien, R.L.**, Muiruri, V., Owen, B., Russell, J.M., Stockhecke, M., Yost, C., HSPDP Team Members, 2019. A comparative analysis of African Plio-Pleistocene patterns of environmental variability and biological evolutionary implications. 2019 INQUA 20th Congress, Dublin, Ireland.
20. **Lupien, R.L.**, Russell, J.M., Beck, C., Feibel, C., Cohen, A.S., 2018. Early Pleistocene Millennial-Scale Hydroclimate Fluctuation in Kenya with Implications for Hominin Evolution. 2018 AGU Fall Meeting, Washington, D.C.
21. Russell, J.M., **Lupien, R.L.**, Cohen, A.S., Beck, C., Campisano, C., Castañeda, I., Deino, A., Feibel, C., Kingston, J., Lamb, H., Potts, R., 2018. Orbital-scale controls on Plio-Pleistocene African climate. 2018 AGU Fall Meeting, Washington, D.C.
22. *Subramanian, A., **Lupien, R.L.**, Russell, J.M., Potts, R., Deino, A., Behrensmeier, A.K., Dommain, R., 2018. Middle to Late Pleistocene Paleoenvironmental Variations at the Ologesailie Basin, Kenya. 2018 AGU Fall Meeting, Washington, D.C.
23. Cohen, A.C., Billingsley, A., Campisano, C., **Lupien, R.L.**, Muiruri, V.M, Bernhard, O.R., Russell, J.M., Stockhecke, M., Yost, C.L., and The HSPDP Team Members, 2018. Records of Plio-Pleistocene environmental variability from the Hominin Sites and Paleolakes Drilling Project (HSPDP): Comparison with other African records and implications for hominin evolution. 2018 AGU Fall Meeting, Washington, D.C.
24. Castañeda, I.S., Thompson-Munson, M.E., Gilchrist, S., **Lupien, R.L.**, Russell, J.M, Salacup, J., Feibel, C., Cohen, A.S., 2018. Early Pleistocene temperature history of Paleolake Lorenyang, West Turkana Basin (Kenya). 2018 AGU Fall Meeting, Washington, D.C.
25. deMenocal, P.B., Polissar, P., Uno, K., Rose, C., Tierney, J., **Lupien, R.L.**, Russell, J., 2018. Paleoenvironmental Contexts of Hominin Evolution. 2018 AGU Fall Meeting, Washington, DC.
26. deMenocal, P.B., Polissar, P., Uno, K., Rose, C., Tierney, J., **Lupien, R.L.**, Russell, J., 2018. Paleoenvironmental Contexts of Hominin Evolution. 2018 GSA Annual Meeting, Indianapolis, IN.

27. Westover, K., Stone, J., Rabideaux, N., Yost, C.L., **Lupien, R.L.**, Kingston, J., 2018. Extreme hydroclimate variability in the Late Pliocene of Kenya's Baringo Basin: the diatom record. 2018 GSA Annual Meeting, Indianapolis, IN.
28. **Lupien, R.L.**, Russell, J.M., Cohen, A.S., Beck, C., Campisano, C., Castañeda, I., Deino, A., Feibel, C., Kingston, J., Lamb, H., Pearson, E., Potts, R., 2018. East African Paleoclimate and Human Evolution. 12th Graduate Climate Conference, Seattle, WA.
29. **Lupien, R.L.**, Russell, J.M., Cohen, A.S., Beck, C., Campisano, C., Castañeda, I., Deino, A., Feibel, C., Kingston, J., Lamb, H., Pearson, E., Potts, R., 2018. Site-Corrected Leaf Wax Biomarker Records Synthesized to Characterize East African Plio-Pleistocene Climate. Goldschmidt 2018, Boston, MA.
30. Goldstein, S.L., Pena, L.D., Yehudai, M., Jaume-Seguí, M., Kim, J., Knudson, K., Basak, C., Hartman, A.E., **Lupien, R.L.**, 2018. The Atlantic Meridional Overturning Circulation Over Time from Nd Isotopes. Goldschmidt 2018, Boston, MA.
31. **Lupien, R.L.**, Russell, J.M., Campisano, C., Feibel, C., Deino, A., Kingston, J., Potts, R., Cohen, A., 2017. A synthesis of Plio-Pleistocene leaf wax biomarker records of hydrological variation in East Africa and their relationship with hominin evolution. 2017 AGU Fall Meeting, New Orleans, LA.
32. **Lupien, R.L.**, Russell, J.M., Castañeda, I., Campisano, C., Cohen, A.C., 2017. Plio-Pleistocene biomarker records of climate in East Africa. 2017 Past Global Changes Open Science Meeting, Zaragoza, Spain.
33. **Lupien, R.L.**, Russell, J.M., Cohen, A., Feibel, C., Beck, C., Castañeda, I., 2016. Leaf wax biomarker reconstruction of Early Pleistocene hydrological variation during hominin evolution in West Turkana, Kenya. AGU Fall Meeting, San Francisco, CA.
34. **Lupien, R.L.**, Russell, J.M., Castañeda, I., Cohen, A., Feibel, C., Beck, C., 2015. Leaf wax biomarker record of rainfall from West Turkana, Kenya. 9th Graduate Climate Conference, Woods Hole, MA.
35. **Lupien, R.L.**, Russell, J.M., Castañeda, I., Cohen, A., Feibel, C., Beck, C., 2015. Leaf wax biomarker record of rainfall from West Turkana, Kenya. 2015 GSA Annual Meeting, Baltimore, MD.
36. Thompson-Munson, M., Castañeda, I.S., **Lupien, R.L.**, Russell, J.M., 2015. Late Pliocene and Early Pleistocene temperature reconstructions from paleolakes of the West Turkana and North Awash Basins, East Africa. 2015 GSA Annual Meeting, Baltimore, MD.
37. **Lupien, R.L.**, Pena, L., Goldstein, S., 2014. AMOC variability during the last 400 ka from Nd isotopes in the Southern Ocean. 2014 AGU Fall Meeting, San Francisco, CA.
38. **Lupien, R.L.**, Pena, L., Goldstein, S., 2013. Southern Ocean Nd isotope end-member variability during the last 400 kyr. 2013 AGU Fall Meeting, San Francisco, CA.
39. Pena, L.D., Goldstein, S.L., **Lupien, R.L.**, 2013. Abrupt Changes in Thermohaline Circulation During the Mid-Pleistocene Transition. 11th International Conference on Paleoceanography, Barcelona, Spain.
40. **Lupien, R.L.**, Harms, T.A., Hames, W.E., 2012. New constraints on cooling ages for Proterozoic accreted arc and metamorphic core zone rocks of the Big Sky orogen, SW Montana. 2012 GSA Northeastern Section Meeting, Hartford, CT.