

# RONNAKRIT RATTANASRIAMPAIPONG

NOAA CLIMATE & GLOBAL CHANGE POSTDOCTORAL FELLOW

Gould-Simpson Building, Room 513A

Department of Geosciences, The University of Arizona

1040 E. 4th St., Tucson, AZ 85721 U.S.A.

[rrattan@ucar.edu](mailto:rrattan@ucar.edu) — [R](#) [G](#) [SC](#) [ID](#) [ORCID](#) — [paleolipidrr.github.io](https://paleolipidrr.github.io)

## EDUCATION

### TEXAS A&M UNIVERSITY

Ph.D. in Oceanography (Paleoceanography/Organic Geochemistry)

College Station, TX

2018–2023

### CHULALONGKORN UNIVERSITY

M.S. in Petroleum Geoscience (International Program)

B.S. in Geology

Bangkok, Thailand

2015–2016

2009–2013

## PROFESSIONAL APPOINTMENTS

### THE UNIVERSITY OF ARIZONA, DEPARTMENT OF GEOSCIENCES

NOAA Climate & Global Change Postdoctoral Fellow

Tucson, AZ

2023–Present

### TEXAS A&M UNIVERSITY, DEPARTMENT OF OCEANOGRAPHY

Graduate Research Assistant

Graduate Teaching Assistant

Graduate Assistant Lecturer

College Station, TX

2018–2023

2022–2023

2021–2022

### CHEVRON THAILAND EXPLORATION AND PRODUCTION, LIMITED

Petroleum Geologist, Satun-Funan Asset Team

Horizon Earth Scientist, Reservoir Management Team

Undergraduate Student Intern, Reservoir Management Team

Bangkok, Thailand

2016–2018

2013–2016

Summer 2012/2013

## RESEARCH INTERESTS

My research interest is centered around utilizing data-driven approaches to uncover new perspectives in paleoceanography and organic geochemistry. I place a special emphasis on lipid-biomarker-based paleoenvironmental reconstructions from ancient marine sediments across the Mesozoic–Cenozoic period and proxy system model development.

## FELLOWSHIPS & GRANTS

Awarded a total of \$326,000 in research funding.

### NOAA Climate & Global Change Postdoctoral Fellowship

*Awarded \$200,000 for two years; up to 8 candidates worldwide*

2023–2025

### Texas A&M Dissertation Fellowship

*Awarded \$24,000 for one year; up to 15 candidates university-wide*

2023–2024

### Texas Sea Grant's Grants-In-Aid Graduate Research Grant

*Awarded \$2,000 for two years*

2022–2024

### Schlanger Ocean Drilling Fellowship

*Awarded \$30,000 for one year; up to 8 candidates nationwide*

2021–2022

### Fulbright Thai Graduate Scholarship

*Awarded \$70,000 for two years; up to 7 candidates nationwide*

2018–2020

## PUBLICATIONS

PAPERS PUBLISHED IN REFEREED JOURNALS

65 total citations, h-index 3 | [google scholar](#) 

3. Judd, E. J., Tierney, J. E., Huber, B. T., Wing, S. L., Lunt, D. J., Ford, H. L., Inglis, G. N., McClymont, E. L., O'Brien, C. L., **Rattanasriampaipong, R.**, Si, W., Staitis, M. L., Thirumalai, K., Anagnostou, E., Cramwinckel, M. J., Dawson, R. R., Evans, D., Gray, W. R., Grossman, E. L., Henehan, M. J., Hupp, B. N., MacLeod, K. G., O'Connor, L. K., Sánchez Montes, M. L., Song, H., and Zhang, Y. G. (2022). The PhanSST global database of Phanerozoic sea surface temperature proxy data. *Scientific Data*, 9(1).  
<https://doi.org/10.1038/s41597-022-01826-0>. *Tier II authorship. Served as a co-lead author on TEX<sub>86</sub> data compilation and curation.*
2. **Rattanasriampaipong, R.**, Zhang, Y. G., Pearson, A., Hedlund, B. P., and Zhang, S. (2022). Archaeal lipids trace ecology and evolution of marine ammonia-oxidizing archaea. *Proceedings of the National Academy of Sciences*, 119(31):e2123193119. <https://doi.org/10.1073/pnas.2123193119>
1. **Rattanasriampaipong, R.** (2016). Potential sources of mercury in Southern Pattani Basin, the Gulf of Thailand. *Bulletin of Earth Sciences of Thailand*, 8(2 SE - Research Articles):133–144.  
<http://dx.doi.org/10.13140/RG.2.2.33243.67369>

MANUSCRIPT(S) UNDER REVIEW, UNDER REVISION, PREPRINT AND/OR IN-PRESS

1. **Rattanasriampaipong, R.**, Zhang, Y. G., Alo, O., Liu, X.-L., Zhang, Y., Kim, B., Marcantonio, F., Bassinot, F., and Li, T. (2024). Methylation index of Overly Branched tetraether lipids (MOB): a proxy for deep ocean (de)oxygenation? *ESS Open Archive*

MANUSCRIPT(S) IN PREPARATION

3. **Rattanasriampaipong, R.**, Tierney, J. E., and Abell, J. T. (*in preparation*). A nutrient effect on the TEX<sub>86</sub> paleotemperature proxy
2. Elling, F., Inglis, G., and many others including **Rattanasriampaipong, R.** (*in preparation*). Archaeal tetraether lipids in marine sediments as tracers for past environmental change. *Tier II authorship. Served as a lead author on 'sources of archaeal lipids in the oceans' section.*
1. Bijl, P. K., Sliwinska, K. K., Duncan, B., Huguet, A., Naeher, S., **Rattanasriampaipong, R.**, Sosa-Montes de Oca, C., Auderset, A., Berke, M., Kim, B. S., Davtian, N., Dunkley Jones, T., Eefting, D., Elling, F. J., O'Connor, L., Pancost, R. D., Peterse, F., Pierrick, F., Rice, A., Sluijs, A., Varma, D., Villanueva, L., Xiao, W., and Zhang, Y. G. (*in preparation*). Best practices for the use of marine GDGTs as proxy for paleotemperatures: sampling, processing, analyses, interpretation, and archiving protocols. *Tier II authorship. Served as a lead author on 'data reporting and archiving' section.*

TECHNICAL REPORTS

1. **Recommended Location, Logging and Coring Program Geological Reports**, Chevron Thailand 2013–18
  - Performed a full assessment for four drilling projects (>50 drilled wells for gas reservoirs), including evaluating geological risks and economic justifications as well as recommending wireline logging and formation testing program.

## RESEARCH EXPERIENCE

POSTDOCTORAL RESEARCH, DEPARTMENT OF GEOSCIENCES, THE UNIVERSITY OF ARIZONA

2024–present

Mentor: Jessica E. Tierney

Title: *TEXAS: Towards a full proxy system modeling of TetraEther indeX of Ammonia oxidizerS and reanalysis of temperature trends for the past 100 million years*

- Designed and built a full proxy system modeling framework for the TEX<sub>86</sub> paleotemperature proxy

- Identified the influence of nutrient levels on the TEX<sub>86</sub> proxy, termed “nutrient stress,” in surface marine sediments and characterized lipid distributions in both global- and regional-scale patterns

**DOCTORAL DISSERTATION RESEARCH**, DEPARTMENT OF OCEANOGRAPHY, TEXAS A&M UNIVERSITY 2018–2023

Advisor & Committee Chair: Yige Zhang

Committee Members: Ethan Grossman, Robert Korty, Jason Sylvan

Close Research Collaborators & Mentors: Ann Pearson (Harvard)

Title: *Beyond TEX<sub>86</sub>: Evaluating Archaeal Evolution Coupled with Oceans and Climate Changes using Tetraether Lipids*

- Characterized archaeal lipid distribution patterns linked to archaeal ecology in marine environments

**MASTER’S THESIS**, DEPARTMENT OF GEOLOGY, CHULALONGKORN UNIVERSITY 2016

Advisor: John Warren

Title: *Potential Sources of Mercury in Southern Pattani Basin, the Gulf of Thailand*

**UNDERGRADUATE SENIOR YEAR RESEARCH**, DEPARTMENT OF GEOLOGY, CHULALONGKORN UNIVERSITY 2011–2013

Advisor: Kruawun Jankaew

Title: *Quantification of Tsunami Magnitude from Sedimentation Modeling of Re-occurring Indian Ocean Tsunamis at Phra Thong Island, Phang Nga, Thailand*

## TEACHING EXPERIENCE

Taught and mentored over 700 undergraduate students across multiple courses and formats, including large asynchronous online courses and small, hands-on programming sessions.

**GRADUATE ASSISTANT - TEACHING**, DEPARTMENT OF OCEANOGRAPHY, TEXAS A&M UNIVERSITY 2023

Course(s)	Semester	Students (Rating)
The Blue Planet - Our Oceans (OCNG 251)	Spring 2023	300 (3.72/5.00)
Data Analysis Methods in Geosciences (GEOS 470)	Spring 2023	30 (5.00/5.00)

**GRADUATE ASSISTANT LECTURER**, DEPARTMENT OF OCEANOGRAPHY, TEXAS A&M UNIVERSITY 2021–2022

Course(s)	Semester	Students (Rating)
The Blue Planet - Our Oceans (OCNG 251)	Spring 2021	116 (4.78/5.00)
	Summer 2021	36 (4.86/5.00)
	Summer 2022	48 (4.64/5.00)
	Fall 2022	194 (4.41/5.00)
<a href="#">[Testimonials]</a>		

\*\* Instructor rating for “The instructor fostered an effective learning environment” (Scale: 1 = Strongly Disagree, 5 = Strongly Agree).

## CRUISE/FIELD EXPERIENCE

**GRADUATE RESEARCH STAFF ON R/V TRIDENT** IN GALVESTON BAY, TEXAS A&M UNIVERSITY 2018

- Trained on oceanographic sampling operations on a one-day sampling cruise in Galveston Bay: seawater sampling (Niskin bottles and handheld Conductivity-Temperature-Depth (CTD) tool), seafloor grab sampling, water turbidity using Secchi disk, seawater pumping for biological and trace metal analyses

**SHORE-BASED OPERATIONAL GEOLOGIST**, CHEVRON THAILAND EXPLORATION AND PRODUCTION LIMITED 2017

- Achieved 90% accuracy in pre-drill vs. post-drill hydrocarbon reserves estimation for 20 gas wells
- Performed real-time stratigraphic correlation using wireline triple combo logs and reassessed pore pressure profiles during drilling

- Trained to monitor real-time drilling operations in the Gulf of Thailand for two weeks on a barge tender rig
- Key activities: including formation pressure acquisition, formation Integrity Test (FIT) and rig-floor operations

UNDERGRADUATE FIELD ASSISTANT, CHULALONGKORN UNIVERSITY Multiple trips over summer 2011–2013

- Conducted field excavation and stratigraphic analysis of tsunami deposits on Phrathong Island, Thailand
- Described grain size and sedimentology and collected sand samples for further geochemical analysis

## INVITED TALKS & LECTURES

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CONDUCTED IN ENGLISH

- 10/2023 50<sup>th</sup> SACNAS NDiSTEM, Portland, OR  
*Archaeal lipids trace ecology and evolution of marine ammonia-oxidizing archaea*, Talk.
- 9/2023 2<sup>nd</sup> International GDGT Workshop, Virtual, ETH Zurich, Switzerland  
*Marine AOA ecology shifts with Earth's climate*, Talk. [Slides]
- 10/2022 Southern University of Science and Technology (SUSTech), China  
*Archaeal lipids reveal distinct AOA ecology in past warm oceans*, Lecture Series on Modern Geobiology. [Slides]
- 10/2022 Lamont-Doherty Earth Observatory (LDEO), Columbia University, NY  
*A suppression of deep-water clades of marine ammonia oxidizers in past warm oceans*, Biology and Paleo Environment (BPE) Seminar Series, Talk.
- 10/2022 Pal(a)eo EaRly Career Seminar (Pal(a)eoPERCS), Virtual  
*Untapped potential of archaeal lipids beyond ocean temperature reconstructions*, Talk. [Recording]
- 7/2022 U.S. Advisory Committee for Scientific Ocean Drilling (USAC), Summer Meeting, Virtual  
Invited Talk on marine geochemistry and scientific ocean drilling.
- 12/2021 Chulalongkorn University, Marine Science Department, Thailand  
*The Anthropocene: Human Footprints on Planet Earth*, Lecture. [Slides]

CONDUCTED IN THAI

- 1/2023 Kasetsart University, Department of Earth Sciences, Thailand  
*Ammonia Oxidizers in Past Warm Oceans*, Lecture. [Slides]
- 10/2022 Burapha University, Department of Marine Technology, Virtual  
*Inferred paleoecology of marine archaea from today's oceans*, Marine Technology Colloquium #62. [Recording]
- 2/2022 Chulalongkorn University, Department of Geology, Virtual  
*Life after Resignation: 'Fulbright' has So Much to Offer*, Talk. [Slides]
- 9/2020 Burapha University, Department of Marine Technology, Virtual  
*Fossil lipids: Thermometers for the Earth's Climate History*, Talk. [Recording]

## PRESENTATIONS

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ACADEMIC & SCIENTIFIC CONFERENCES

12. Rattanasriampaipong, R., Tierney, J., Elling, F., and Inglis, G. (2024, December). *Rethinking TEX<sub>86</sub> temperature calibration with TEXAS-PSM*. Oral presentation at the 2024 AGU Fall Meeting, Walter E. Washington Convention Center, Washington, D.C., USA.
11. Rattanasriampaipong, R. and Tierney, J. (2024, August). *TEXAS-PSM: Towards a full proxy system modeling of TetraEther index of Ammonia oxidizerS*. Poster presentation at the 2024 Gordon Research Conference on Organic Geochemistry, Holderness School, Holderness, NH, USA.

10. **Rattanasriampaipong, R.** and Tierney, J. (2024, July). *TEXAS-PSM: Towards a full proxy system modeling of TetraEther index of Ammonia oxidizer*. Poster presentation at the 2024 Gordon Research Seminar on Organic Geochemistry, Holderness School, Holderness, NH, USA.
9. **Rattanasriampaipong, R.** and Tierney, J. (2024, July). *Rethinking proxy calibration framework for TEX<sub>86</sub> paleothermometry*. Oral presentation at the 16th NOAA Climate and Global Change Postdoctoral Fellowship Summer Institute, Holiday Inn, Steamboat Springs, CO, USA.
8. **Rattanasriampaipong, R.**, Zhang, Y. G., Alo, O., Liu, X. L., Zhang, Y., Kim, B., Marcantonio, F., and Bassinot, F. (2023, December). *Bacterial tetraether lipids as a proxy for ocean (de)oxygenation*. Abstract (PP33B-04) presented at the 2023 AGU Fall Meeting, Moscone Center, San Francisco, CA, USA.
7. **Rattanasriampaipong, R.**, Zhang, Y. G., Pearson, A., Hedlund, B., and Zhang, S. (2022, December). *Archaeal lipids suggest ecological shifts of marine ammonia-oxidizing archaea in greenhouse worlds*. Abstract (PP13C-04) presented at the 2022 AGU Fall Meeting, McCormick Place Convention Center, Chicago, IL, USA.
6. **Rattanasriampaipong, R.**, Zhang, Y. G., Pearson, A., Hedlund, B., and Zhang, S. (2022, April). *Tracing ecology and evolution of marine ammonia-oxidizing archaea using archaeal lipid biomarkers*. Oral presentation, Departmental Seminar, Department of Oceanography, Texas A&M University, College Station, TX, USA.
5. **Rattanasriampaipong, R.**, Zhang, Y. G., Pearson, A., and Hedlund, B. (2021, December). *Beyond TEX<sub>86</sub>: GDGTs Inform Marine Archaeal Community Ecology and Evolution*. Hybrid oral presentation at the 2021 AGU Fall Meeting, Ernest N. Morial Convention Center, New Orleans, LA, USA.
4. **Rattanasriampaipong, R.**, Zhang, Y. G., Pearson, A., Hedlund, B., and Zhang, S. (2021, September). *Beyond TEX<sub>86</sub>: GDGT Distributions Inform Archaeal Ecology*. Lightning (3-minute) oral presentation at the 2021 PhanTASTIC Workshop.
3. **Rattanasriampaipong, R.** (2021, April). *Closing the gaps of Cenozoic sea surface temperature history using tetraether archaeal lipid biomarkers*. Oral presentation, Departmental Seminar, Department of Oceanography, Texas A&M University, College Station, TX, USA.
2. **Rattanasriampaipong, R.** and Zhang, Y. G. (2019, December). *Towards complete global sea surface temperature reconstructions over the Cenozoic Era*. Poster presentation at the 2019 AGU Fall Meeting, Moscone Center, San Francisco, CA, USA.
1. **Rattanasriampaipong, R.** (2013, April). *Quantification of Tsunami Magnitude from Sedimentation Modeling of Re-occurring Indian Ocean Tsunamiites at Phra Thong Island, Phang Nga, Thailand*. Oral presentation at the Annual Hitachi Senior Project Competition, Faculty of Science, Chulalongkorn University, Bangkok, Thailand.

## INDUSTRY

4. **Rattanasriampaipong, R.**, Marksamer, A., and Kantatong, P. (2018, April). *A new approach for pore pressure prediction using neutron-density log separation*. Oral presentation at the 2019 Sub-Surface Technical Forum, Chevron Thailand Headquarters, Bangkok, Thailand.
3. **Rattanasriampaipong, R.**, Paiboon, P., and Thatmali, P. (2015, February). *Pattani Basin Regional Pore Pressure Study*. Oral presentation at the Annual Meeting of Chevron Thailand Reservoir Management Forum, Swissotel Le Concorde, Bangkok, Thailand.
2. **Rattanasriampaipong, R.**, Kananithikorn, N., Keawmoon, N., and Prasongtham, P. (2014, June). *Causes of ballooning and lost circulation in Erawan and Satun fields*. Poster presentation at the Bi-Annual Meeting of Chevron Reservoir Management Forum, The Woodlands Waterway Marriott Hotel, Houston, TX, USA.
1. **Rattanasriampaipong, R.**, Kananithikorn, N., Keawmoon, N., and Prasongtham, P. (2014, April). *Causes of ballooning and lost circulation in Erawan and Satun fields*. Oral presentation at the Annual Meeting of Chevron Thailand Reservoir Management Forum, Renaissance Hotel, Bangkok, Thailand.

## MENTORING

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### ORGANIC GEOCHEMISTRY LABORATORY MENTOR, Texas A&M University

2021–2023

Mentored 4 on-campus and visiting undergraduate students in sample preparation and laboratory techniques for archaeal lipid biomarker (GDGT) analysis using LC-MS. Responsibilities included:

- Freeze-drying and homogenizing marine mud samples from ocean drilling programs.
- Extracting total lipid extracts (TLE) using an Accelerated Solvent Extractor (ASE).
- Developing and optimizing ASE extraction methods.
- Purifying samples for LC-MS analysis via cellulose filtering and silica-gel column chromatography.

### GEOLOGY MENTOR, Chevron Thailand Exploration and Production Limited

2014–2015

Mentored 2 newly hired geologists in hydrocarbon exploration for a drilling project in the Gulf of Thailand. Responsibilities included:

- Interpreting wireline logs and performing stratigraphic correlation.
- Conducting pore pressure prediction and well design analysis.
- Supporting safe and efficient drilling operations.

## AWARDS & HONORS

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### SCHOLARSHIPS

Texas A&M Oceanography Graduate Scholarship

2018–2024

Chevron Thailand Graduate Scholarship

2015–2016

Chevron Undergraduate Scholarship

2012–2013

Mitsui Oil Exploration Company (MOECO) Undergraduate Scholarship

2011–2013

### HONORS

Invited Student Speaker, Annual AGU Student Travel Grant Luncheon, AGU Fall Meeting, Chicago, IL, December 12, 2022.

Invited Student Speaker, Award Recognition Ceremony, Ministry of Foreign Affairs, Bangkok, June 6, 2018.

**Champion, The Hitachi Trophy 2013 Senior Project Competition** – First place in Physical Sciences category, Faculty of Science, Chulalongkorn University, April 2013.

### TRAVEL GRANTS

FAS Research and Academic Exchange, Faculty of Arts and Sciences, Harvard University

10/2024

Fall Meeting Student Travel Grant, American Geophysical Union (AGU)

12/2022

Oceanography Graduate Council (OGC) Mini-Grant, TAMU Oceanography

12/2019, 12/2021, 12/2022

TAMU Research and Presentation Award, Graduate and Professional School (GPS), TAMU

12/2019

## SYNERGISTIC ACTIVITIES (SERVICES & LEADERSHIP)

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### MANUSCRIPT REVIEWER

15 reviews for 11 papers

Reviewed for: *Chemical Geology* (2), *Frontiers in Marine Science* (2), *Folia Microbiologica* (1), *Geochimica et Cosmochimica Acta* (2), *Geophysical Research Letters* (2), *Nature Geoscience* (1), *Organic Geochemistry* (1), *Paleoceanography and Paleoclimatology* (3), *Science Advances* (1).

### SESSION CO-CONVENER AND CO-CHAIR, AGU Fall Meeting

2022–Present

- Organized and chaired the session *Past Climates and Environments of Southeast Asia and the Indo-Pacific (PaleoSEA)* in the Paleoclimatology and Paleoceanography (PP) section.

**DISCUSSION LEADER**, Gordon Research Seminar on Organic Geochemistry July 27, 2024  
Led the keynote session *Disciplinary Integrations with Organic Geochemistry* at the 2024 Gordon Research Seminar.

**Co-AUTHOR**, Open Letter to NSF on U.S. Scientific Ocean Drilling July 8, 2022

- Co-authored a letter advocating for continued NSF funding of U.S. Scientific Ocean Drilling (SciOD).
- Signed by 208 Early Career Researchers from 98 institutions across 17 countries.

**GRADUATE STUDENT SENATOR**, Texas A&M University 2018–2022  
**Co-AUTHOR**, GPSG Resolution on Decarbonization and Fossil Fuel Divestment April 21, 2020

- Co-authored GPSG.R.53.05, advocating for TAMU to reduce fossil fuel investments.
- Passed by the Graduate and Professional Student Government (GPSG) Senate.

**TREASURER**, Fulbright Students' Association, Texas A&M University 2019–2020  
**TOUR DOCENT**, R/V *Sally Ride*, AGU Fall Meeting December 11, 2019  
**BOARD MEMBER**, Fulbright Students' Association, Texas A&M University 2018–2019  
**GEOLOGY UNDERGRADUATE STUDENT PRESIDENT**, Chulalongkorn University 2012–2013

## OUTREACH

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### PRESS AND MEDIA COVERAGE

#### INTERVIEWED ARTICLES IN ENGLISH

1. **Brave the World** – Stories of Fulbrighters' Impact, 70<sup>th</sup> Anniversary of the Fulbright Program in Thailand. *Fulbright Thailand*, December 24, 2021. [[Online Article](#)]

#### INTERVIEWED ARTICLES IN THAI

5. **Learn Plearn Plearn** by PTip Podcast – Episode 190. *Fulbright Thailand*, January 23, 2024. [[Podcast](#)]
4. **Talk with Fulbrighter: Ronnakrit Rattanasriampaipong** *Fulbright Thailand*, May 18, 2022. [[Online Article](#)]
3. **Recommended Field of Study: Paleoclimatology/Paleoceanography** *Fulbright Thailand*, December 8, 2021. [[Online Article](#)]
2. **Fulbright in My View** – Fulbright Experiences. *Fulbright Thailand*, October 6, 2021. [[Online Article](#)]
1. **A Journey Without a Map** *The Science Scholars Facebook Page*, June 16, 2020. [[Online Article](#)]

#### PANEL DISCUSSIONS IN THAI

3. **Fulbright Thai Graduate Scholarship (TGS): More Than Just a Scholarship** – Virtual Event. *Fulbright Thailand*, February 17, 2023. [[Recording](#)]
2. **Meet the Fulbrighter Series: Study Pure & Applied Science in the U.S.** – Virtual Event. *Fulbright Thailand*, March 31, 2021. [[Recording](#)]
1. **Meet the Fulbrighter Series: Doctoral Studies in the U.S.** – Virtual Event. *Fulbright Thailand*, March 5, 2021. [[Recording](#)]

## WORKSHOPS

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### PROFESSIONAL DEVELOPMENT

**Lab Visit**, Lab for Molecular Biogeochemistry and Organic Geochemistry (Pearson Lab), Harvard University, Cambridge, MA *October 24–30, 2024* Hands-on experience with the Spooling-Wire Microcombustion device interfaced with an Isotope-Ratio Mass Spectrometer (SWiM-IRMS) under the guidance of Dr. Ann Pearson and PhD student Amanda Calhoun.

**NOAA Climate & Global Change Summer Institute**, Holiday Inn, Steamboat, CO July 14–19, 2024

**Paleoclimate Data Assimilation Workshop**, The University of Arizona, Tucson, AZ October 18–21, 2022



**PaleoCAMP 2022 Summer School**, Heising-Simons Foundation, Sierra Nevada Aquatic Research Laboratory (SNARL), Mammoth Lakes, CA *July 11–22, 2022*  
 Selected as 1 of 25 attendees from 132 applicants.

**Science Mission Requirements (SMR) Workshop**, NSF/USSSP-IODP, Chicago, IL *May 17–18, 2022*

**LinkedEarth PaleoHackathon 2**, Virtual Python Workshop *October 28–29, 2021*

#### **G.R.A.D. AGGIES PROFESSIONAL DEVELOPMENT PROGRAM** Texas A&M University

NSF: The Agency, Proposal Preparation & Review *February 19, 2020*

Open Educational Resources Workshop *September 13, 2019*

Creating a Life of Balance & Wellness *September 10, 2019*

#### **FOREIGN FULBRIGHT STUDENT PROGRAM**

Innovations in Civic Engagement: Harnessing Data for the Public Good, Philadelphia, PA *March 7–10, 2019*

Pre-Academic Orientation Program, Ohio University, Athens, OH *July 28–August 18, 2018*

#### **CHEVRON IN-HOUSE TRAINING (ENERGY COMPANY TECHNOLOGY)**

Reservoir Geophysics *November 21–25, 2017*

Applied Concepts of Structural Geology *June 12–16, 2017*

Stratigraphic Analysis of Shallow Marine and Fluvial Reservoirs *May 29–June 2, 2017*

Interpretation of 3D Seismic Data *November 14–17, 2016*

Basic Reservoir Engineering *December 15–19, 2014*

Formation Evaluation (Fundamentals) *October 6–9, 2014*

Applied Stratigraphic Concepts *August 4–8, 2014*

Applied Subsurface Geological Mapping *June 23–27, 2014*

Applied Petroleum Geochemistry *April 21–24, 2014*

#### **PROFESSIONAL SOCIETIES**

**Student Member**, American Geophysical Union (AGU) 2018–Present

**Student Member**, American Association for the Advancement of Science (AAAS) 2019–2023

**Student Member**, American Association of Petroleum Geologists (AAPG) 2013–2023

**Secretary**, Thailand Society of Exploration Geophysicists (TSEG) 2015–2016

**Student Member**, Society of Petroleum Engineers (SPE) 2010–2013

#### **SKILLS & (COMPUTATIONAL) LANGUAGES**

**Languages:** Thai (Native), English (Full professional proficiency)

**Documentation and Artworks:** MS Office Suites, LaTeX (Overleaf), Adobe Illustrator, Inkscape

**Data Analytics and Visualizations:** Python, MATLAB, ArcGIS, QGIS, Tableau, and Spotfire

#### **PERSONAL INTERESTS**

Science communication, Infographics, Data visualization, Marathon and ultra-distance running