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 — R^6 \Im \square \bigcirc — 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 ceanography and organic geochemistry. I place a special emphasis on lipid-biomarker-bas reconstructions from ancient marine sediments across the Mesozoic–Cenozoic period and period velopment.	sed paleoenvironmental
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 Schlanger Ocean Drilling Fellowship	2022-2024
Awarded \$30,000 for one year; up to 8 candidates nationwide Fulbright Thai Graduate Scholarship Awarded \$70,000 for two years; up to 7 candidates nationwide	2018-2020

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Papers published in refereed journals

65 total citations, h-index 3 | google scholar \Im

- 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 TEX₈₆ 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) SUBMITTED, UNDER REVIEW, UNDER REVISION, PREPRINT AND/OR IN-PRESS

- 3. 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.
- 2. Rattanasriampaipong, R., Tierney, J. E., Abell, J. T., and Gilmore, L. D. (2025). A nutrient effect on the TEX₈₆ paleotemperature proxy. ESS Open Archive. https://doi.org/10.22541/essoar.174282893.38516947/v1
- 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. https://doi.org/10.22541/essoar.171415886.62339907/v1

MANUSCRIPT(S) IN PREPARATION

1. 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.

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 evaluting geological risks and economic justifications as well as recommending wireline logging and formation testing program.

 TOT A DOTE	EXPERIENCE

POSTDOCTORAL RESEARCH, DEPARTMENT OF GEOSCIENCES, THE UNIVERSITY OF ARIZONA

2024-present

Mentor: Jessica E. Tiernev

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 TEX₈₆ paleotemperature proxy

• Identified the influence of nutrient levels on the TEX₈₆ 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 TEX₈₆: 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 Tsunamiites 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	Studets (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	Studets (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)
		[Testimonials]

^{**} 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

CONDUCTED IN ENGLISH

- 4/2025 **University of Colorado Boulder GeoBioSupergroup Meeting**, Boulder, CO *Disentangling nutrient effects on TEX*₈₆ *paleotemperature proxy*, Virtual Talk.
- 10/2023 50th SACNAS NDISTEM, Portland, OR
 Archaeal lipids trace ecology and evolution of marine ammonia-oxidizing archaea, Talk.
- 9/2023 **2**nd **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]

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ACADEMIC & SCIENTIFIC CONFERENCES

12. **Rattanasriampaipong**, R., Tierney, J., Elling, F., and Inglis, G. (2024, December). *Rethinking TEX*₈₆ 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 oxidizerS*. 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*₈₆ 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*₈₆: 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*₈₆: *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

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

SCHOLARSHIPS

Texas A&M Oceanography Graduate Scholarship

Chevron Thailand Graduate Scholarship

Chevron Undergraduate Scholarship

Mitsui Oil Exploration Company (MOECO) Undergraduate Scholarship

2018–2024

2015–2016

2012–2013

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

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

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

Synergistic Activities (Services & Leadership)

Manuscript Reviewer

15 reviews for 11 papers

Reviewed for: Chemical Geology (2), Frontiers in Marine Science (2), Folia Microbiologic (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

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 University2019–2020TOUR DOCENT, R/V Sally Ride, AGU Fall MeetingDecember 11, 2019BOARD MEMBER, Fulbright Students' Association, Texas A&M University2018–2019GEOLOGY UNDERGRADUATE STUDENT PRESIDENT, Chulalongkorn University2012–2013

OUTREACH

Press and Media Coverage

INTERVIEWED ARTICLES IN ENGLISH

1. **Brave the World** – Stories of Fulbrighters' Impact, 70^{th} 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

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 April 21-24, 2014 Applied Petroleum Geochemistry 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