Yufan FENG

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EDUCATIONAL BACKGROUND

College of Sciences and Mathematics, Auburn University Aug. 2025 - Present

- Degree: Geoscience (**Ph.D. student**)
- Research interests: Paleofire, Paleoclimate, Organic geochemistry

Faculty of Environment and Life Sciences, University of Southampton Sept. 2022 - Oct. 2023

- Major: Oceanography (**M.Sc.**)
- GPA: 3.55/4.0 (Merit Classification)
- Covered Subjects: Marine Microbial Biotechnology, Biogeochemistry Cycles in the Earth System.

College of Marine Science and Technology, China University of Geosciences Sep. 2018 - Jun. 2022

- Major Degree: Marine Science (Elite class) (**B.Sc.**)
- GPA: 3.50/4.0
- Covered Subjects: Stratigraphy and Paleontology, Paleoceanography, Geochemistry
- Minor Degree: Comparative Literature
- GPA: 3.82/4.0

HONOR & AWARD

- Carl Storm Opportunity Fellowship in Gordon Research Conference (2026)
- Geological Society of America (GSA) Graduate Student Research Grants (2026)
- Postgraduate Merit Scholarship in University of Southampton (2022)
- National Award in Innovative Research Competition for Undergraduate (2021&2022)
- Outstanding Trainee Award in joint internship of marine science in Yangtze Estuary and adjacent sea areas (2021)
- Talent Engineering Scholarship (2020&2021)

ACADEMIC EXPERIENCE

Current PhD research: Sep. 2025 - Present

- Variability in PAHs Fire Proxy Performance: A Multi-site Holocene Synthesis Integrating PAHs and Pollen Records (manuscript in preparation).
- Environmental Controls on Long-Term Carbon Accumulation in a Temperate Boreal Peatland.
- Climate Controls on Fire Activity Across Southeastern US (2001-2024).
- Developing Microbial Derived Biomarkers from Pyrogenic Organic Matter as Novel Proxies for Paleofire Reconstruction

Master thesis:

Reconstructing terrestrial ecosystems in the British Isles over the past 500 years Feb. 2023 - Oct. 2023

- Collected lake coring samples and contiguous vegetation from the field.
- Isolated and fractionated organic compounds from the specimens, acquiring gas chromatography data.
- Performed comparative analysis of gas chromatography data from river sediments and adjacent vegetation to elucidate ecological shifts spanning the past five centuries.
- Interpreted and graphically represented outcomes using the R and Matlab.

Undergraduate thesis:

Trace Element Composition of Siliceous chert nodules in the Songluo-Xujiazhuang Region of Shennongjia and its Significance for Palaeoceanography Jun. 2021 - Jun. 2022

- Conducted field sampling of siliceous nodules and the surrounding rock.
- Prepared and processed samples for microscopic cathodoluminescence observations.
- Utilized trace and rare element analyses to discern formation mechanisms and sedimentary contexts.
- Produced geological profiles, spidergrams, and illustrative diagrams using software such as CorelDraw, Matlab, and mapping tools, effectively conveying research findings.

National Innovative Research Award:

Investigating the Impacts of a Decadal Fishing Moratorium Policy on Aquatic Organisms in the Yangtze Estuary Apr. 2021 - Jun. 2022

- Explored the consequences of a decade-long fishing ban on aquatic life, advancing knowledge of ecosystem dynamics.
- Executed comprehensive field sampling of water bodies and crafted a digital hydrodynamic model (ROMS-CoSiNE) to simulate aquatic environments.
- Utilized advanced techniques, including eDNA detection and the Regional Ocean Modeling System (ROMS), revealing the policy's impact on aquatic organisms.

INTERNSHIP EXPERIENCE

Interdisciplinary Oceanographic Research on Hydrogeology, Geochemistry, and Plankton Dynamics in the Changjiang Estuary Region (ZJU) Jun - Jul. 2021

- Utilized specialized instrumentation for the acquisition and archival of hydrological data.
- Conducted the procurement and preliminary processing of plankton, water, and sediment samples.

Geological, Topographic, and Lithological Survey in the Zigui Region (CUG) Jun - Jul. 2020

- Geological exploration and mapping of Kowloon Bay.
- Studied valuable rock formations through topographic and lithological prospecting.
- Data archiving, statistical analysis and processing, gaining expertise in geological survey processes and lithological characteristics of a distinct era.

Geological and Topographic Survey in Beidai River Areas (CUG) Jun - Jul. 2019

- Visited Beidaihe for a professional internship organized by CUG.
- Accumulated geological fieldwork skills and practical ability.

WORKING EXPERIENCE

- Overseas Course Tutor in Xike Education Technology Co., Ltd. Mar. 2025 - Jul. 2025
- IELTs Teacher in New-channel Education Technology Co., Ltd. Apr. 2024 - Mar. 2025
- Associated Editor in MDPI Academic Journal Dec. 2023 - Apr. 2024
- Full-time Geography Teacher in Tianjin No.90 Middle School Dec. 2019 - Jul. 2020

OTHER EXPERIENCE

- Sociological study on the effects of a 10-year fishing ban in the Yangtze River.
- Volunteer experience in NGOs, focusing on red coral protection and juvenile sea turtle rehabilitation.