Xueyu "Amanda" Luo

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EDUCATION

Texas A&M University | College Station, TX May 2026
B.S. Petroleum Engineering
Minor in Geology

WORK EXPERIENCE

Battelle Memorial Institute | Columbus, OH
Carbon Capture Utilization Storage Intern *May 2025 – Aug 2025*

- Built and ran reservoir simulation models in CMG Builder and CMG GEM to predict fluid behavior over time
- Visualized and plotted simulation outputs in CMG Results to get CO2 plumes, pressure build-up, and bottom-hole pressure
- Ran sensitivity cases to determine impact of certain parameters on the uncertainty of the model
- Collaborated with reservoir engineers in the Carbon Services department to complete client requests in a timely manner

Heavy Oil, Oil shales, Oil sands, & Carbonate Analysis and Recovery Methods Research Group | College Station, TX
Undergraduate Researcher | Advisor: Berna Hascakir *Sep 2024 – Present*

- Conducted thermal enhanced oil recovery experiments on unconventional oil using methods including in-situ combustion, microwave heating, solvent-steam processes, and surfactant-steam flooding 10 hours a week
- Operated Fei Quanta 600 FE-SEM to obtain the element compositions of crushed rock samples
- Performed thermogravimetric analysis and differential scanning calorimetry to measure heat flow in rock and fluid samples
- Applied Fourier Transform Infrared Spectroscopy to rock and produced water samples from combustion experiments to observe their chemical properties
- Measured total dissolved solids, viscosity, and pH in fluid samples

Lonquist & Co., LLC | Austin, TX
Social Media Manager *Dec 2024 – Present*

- Developed and scheduled weekly content to drive engagement across LinkedIn, Instagram, Twitter, and Facebook
- Monitored and optimized posts to ensure alignment with brand guidelines and compliance with community standards
- Collaborated with executives to create and adapt content that supports evolving business priorities

Sakura Japanese Restaurant | College Station, TX
Waitress *Dec 2025 – Present*

- Took and processed customer orders in English and Chinese, accurately accommodating special requests and modifications
- Coordinated with kitchen staff to ensure timely and correct order fulfillment, enhancing customer satisfaction
- Maintained a clean and organized workspace, contributing to a welcoming dining environment

LEADERSHIP EXPERIENCE

International Association of Drilling Contractors | College Station, TX
Treasurer *May 2025 – Present*

- Manage finances for the organization including club dues and conference fees

Society of Petroleum Engineers | College Station, TX *Jan 2022 – Present*
Technical Development Committee Member

- Attended the annual student retreat and networked with professionals about current industry events, outlook, methods, and technology
- Planned events with the technical development committee to enhance the technical proficiency of the student body

Energy Research Society | College Station, TX
Event Coordinator *Jan 2023 – Jan 2024*

- Organized the largest student-led symposium in the United States (2023 Conference on Energy) with over 400 participants
- Campaigned and acquired over $10,000 of sponsorships from 5 energy companies
- Managed the 2023 Energy Transition Case Competition with over 50 participants and $3,000 in cash prizes
- Worked with the internal outreach committee to create 3 on-campus student engagement events per year

ACE Dance Team | College Station, TX
Member *Aug 2023 – Present*

- Rehearsed 3+ hours weekly to perform K-pop choreography at university and community events
- Collaborated with team members to deliver polished group performances and promote cultural engagement on campus

SKILLS AND INTERESTS

- CMG Suite, Coviz, Techlog, CMOST, SGeMS, Python, Microsoft Office (Excel, Word, PowerPoint, and Teams), PVTsim Nova, Kingdom, Enverus, and fluent in Chinese (advanced mid on Oral Proficiency Interview)
- Singing, guitar, piano, music production, and dance