

Kelsey T. Gangi

'Bridging Science and Technology'

<https://www.linkedin.com/in/kelseygangi000/>

QUALIFICATIONS & SKILLS:

Lab Management | FTIR Spectroscopy | Mass Spectrometry | ArcGIS | Adobe Creative Suite | Office365 | Rockworks | TOBIN | ImageJ | Soil Classification | OSHA | Isotope Geochemistry | Petrography | Map Digitization | Remote Sensing | Data Analysis | Machine Learning | Python | R | SQL | Visual Basic | HTML5 | CSS | Field Surveying | Petroleum Geology | Reservoir Geophysics | Seismic Tomography | Chemical Modeling

EDUCATION:

The University of Houston || MSc. Geology || September 2019 - May 2023 || GPA: 3.58

The University of Houston || BSc. Geology || January 2016 - December 2018 || GPA: 3.39

Georgetown High School || Highschool Diploma || Class of 2010

Coursework: Reservoir Geophysics, Petroleum Geology, Rock Physics, Plate Tectonics, Seismic Tomography, Radiogenic Isotopes, Biostratigraphy, Thermochronology, Inorganic Geochemistry, Planetary Materials, Machine Learning, Environmental Geology, Paleobiology, Mineralogy, Geologic Field Methods, Sedimentary Petrogenesis, Petrography, Applied GIS, Stratigraphy, Ig. Met. Petrogenesis, Structural Geology

EXPERIENCE:

ANSGEO - AUSTIN, TX

July 2023 - August 2023 || Entry-level Geotechnical Engineer

While working with AnsGeo, I received training on a wide variety of topics including: Test borings & pits, soil classification, electrical resistivity testing (ERT), pile load testing (PLT), rock core sampling & analysis, gINT, qGIS, and additionally completed my OSHA-10 and AHA-CPR certifications. Unfortunately, my onboarding group was let go after the project we were hired to work on was unexpectedly delayed by red tape. Afterwards, AnsGeo made efforts to hire me directly, but legal agreements made during my onboarding created complications. However, I am very grateful to everyone at AnsGeo for the positive feedback and lessons learned, and I eagerly look forward to continuing my growth in this area.

Reference: Mr. Jonathan Nelson (Senior Engineer, 908-754-8800)

MEDIATORS AND ARBITRATORS OF AMERICA (MAA) - AUSTIN, TX

Jan. 2017 – Present || Chief Technology Officer & Certified Mediator/Arbitrator

MAA is a group of legal consultants and trainers for whom I've developed and maintained five educational WordPress platforms with over 62,000 total users and ~\$300K in annual sales. I successfully pivoted all in-person trainings to interactive online classrooms during COVID, which drastically cut overhead costs and drove company profit margins up by ~20%. Further, I drafted and won several RFP's for contracts with state insurance departments to supply arbitrators for surprise-billing insurance claims. Responsible for all marketing campaigns, brand development, information technology asset management, and online presence.

Reference: Dr. Charlene Wittenberg (COO, 410-972-1384)

JACOBS ENGINEERING (JETS) – NASA JOHNSON SPACE CENTER, TX

Nov. 2017 – April 2022 || Laboratory Petrologist & Intermittent Student Scientist

This was a fun project at NASA where I studied the role of water within the Earth's mantle. I was lucky enough to start my research in my junior year of undergrad and I had many incredible experiences in the astromaterials research and exploration sciences group. I prepared and analyzed many samples using a variety of different methods (FTIR, LA-ICPMS, XRD, SIMS, etc.), assisted in managing several labs, and created machine learning models using Python, ImageJ, Jupyter Notebook. Using Fourier transform infrared spectroscopy (FTIR), we accurately determined water concentrations in mantle xenocrysts from geologic environments around the world. We then modeled these results against Fick's laws of diffusion to determine hydrogen diffusivities for three independent mineral phases within peridotites. Lastly, we used LA-ICPMS to measure and model rare earth element concentrations against water concentrations within various peridotite phases.

Reference: Dr. Anne Peslier (Graduate Supervisor, 281-965-9151)

THE UNIVERSITY OF HOUSTON (UH) – HOUSTON, TX

Feb. 2016 – Oct. 2017 || Outdoor Adventure Supervisor

Here, I was taught exceptional leadership and safety skills by training employees on safe belaying techniques and proper usage of climbing equipment. We maintained a strong focus on safety, regularly inspecting and maintaining equipment and the climbing wall to uphold high safety standards and prevent accidents. I also led several engaging and educational trips to remote locations with groups of 15 to 20 students, facilitating learning experiences in primitive camping, outdoor survival skills, leadership development, and various outdoor sports such as kayaking, hiking, and rock climbing. Obtained extensive training in search and rescue techniques, which has equipped me with the knowledge and skills to oversee emergency situations and perform technical rope rescues.

Reference: Mrs. Nancy Harrington (Supervisor, 410-2921-2873)

SOUTHWESTERN ENERGY COMPANY (SWN) - SPRING, TX

Sept. 2015 – Nov. 2015 || Owner Relations Specialist

During my time at SWN, I managed all incoming phone calls from leaseholders and landowners to provide prompt and professional assistance while addressing their inquiries and concerns. I also facilitated the smooth transfer of mineral ownership in cases of death or conveyance while ensuring accurate documentation and compliance with legal requirements. I generally served as a knowledgeable resource for owners and direct facing clientele, offering expert advice and resolving their queries promptly or connecting them with appropriate experts when necessary. I engaged in regular communication with various stakeholders, including attorneys, title curators, landmen, politicians, and other industry professionals, dealing with a wide range of issues related to oil and gas well drilling, leasing, and beyond. Ultimately experienced a layoff due to an industry-wide downturn in the oil and gas economy.

Reference: Mrs. Bev Smith (Supervisor, 281-728-8346)

RECREATIONAL EQUIPMENT INC. (REI) – ROUND ROCK, TX

April 2015 – Sept. 2015 || Customer Service Specialist

Successfully served in multiple roles, including Front Desk Sales Clerk, Product Expert, and Online Order Fulfillment Manager, demonstrating versatility and adaptability to various responsibilities within the store. Provided comprehensive training to staff members on Point of Service operations during system upgrades, ensuring smooth transitions and minimizing disruptions to customer service. Accomplished an outstanding 27% membership conversion rate (ranking as the second highest in the store's history until its closure in 2019), illustrating a strong ability to engage customers and promote loyalty. Recognized for exceptional performance and nominated for the prestigious company-wide Anderson Award, REI's highest honor, acknowledging dedication, leadership, and exemplary contributions to the organization.

Reference: Mr. Ken Hill (Supervisor, 214-435-1258)

TRI-ENERGY ASSET MANAGEMENT (TEAM) - HOUSTON, TX

June 2010 – Feb. 2015 || Oil & Gas Land Records Analyst

Maintained and indexed oil and gas contracts and documents in various database systems and software (TOBIN, Petrel, Access, MySQL). Conducted document discovery for property title amendments to release suspended royalty payments. Communicated with leaseholders, partners, and leaders regarding drilling, leasing, probate, property management, and royalty payments. Georeferenced various maps and plats using ArcMap.

Reference: Mrs. Carolyn Gibbs (Supervisor/COO, 713-542-8525)

AWARDS & AKNOWLEDGEMENTS:

- 1. EAS Masters Excellence Scholarship** || April 2020 || *Presented by: The University of Houston*
- 2. Field Camp Scholarship** || May 2018 || *Presented by: Shell Oil Company*
- 3. Academic Excellence Scholarship** || May 2018 || *Presented by: Marathon Oil Corporation*

CERTIFICATIONS:

- 1. OSHA Construction Safety (10 Hours)** || August 2023 || *OSHA / clicksafety.com*
- 2. American Red Cross CPR, AED, & First Aid (2 Hours)** || August 2023 || *The American Red Cross*
- 3. Petroleum Land Management Certification (144 Hours)** || July 2016 || *The University of Houston – Downtown*
- 4. Advanced Mediation & Arbitration Certification (96 Hours)** || August 2018 || *Mediators and Arbitrators of America*

ORGANIZATIONS:

- 1. The Geological Society of America (GSA)** || Member
- 2. The Society of Exploration Geophysicists (SEG)** || Member
- 3. The American Association of Petroleum Geologists (AAPG)** || Member
- 4. Mineralogical Society of America (MSA)** || Member
- 5. American Institute of Professional Geologists (AIPG)** || Member

FIELD WORK:

- 2019 - Soil Characterization, Ground Water Measurement, and LIDAR & Photogrammetry of the Coastal Plain** || Galveston, TX (*1 Week*)
- 2018 - Interpretation of Soil Profiles and the Depositional History of Caprock Canyon** || Caprock Canyon, TX (*1 week*)
- 2018 - Geologic Mapping and Structural Investigations in the Snake River Valley** || Dillon, MT (*2 weeks*)
- 2018 - Structural Mapping of Laramide Style Deformation Structures** || Red Lodge, MT (*2 weeks*)
- 2018 - Geologic Mapping of the Chalk Draw Fault** || Rosillos Mountains, Big Bend, TX (*1 week*)
- 2018 - Lithostratigraphic Field Studies of the Ouachita Orogeny** || Arbuckle Mountains, OK (*1 week*)
- 2017 - Geologic Mapping of a Tertiary Intrusive Basalt** || Grapevine Hills, Big Bend, TX (*1 week*)

PUBLICATIONS:

- 1. Metasomatic control of hydrogen contents in the layered cratonic mantle lithosphere sampled by Lac de Gras xenoliths.**
Geochimica et Cosmochimica Acta || Kilgore et al. (2018)
- 2. Hydrogen diffusion in pyroxenes and olivine from Dish Hill (CA, USA) spinel peridotite xenoliths.**
American Geophysical Union || Peslier et al. (2019)