

KIMBERLY TRAHAN

Geologist, Offshore Surveyor

✉ kimmikki13@aim.com

☎ 346-219-8514 kimmikki13.wixsite.com/kimberlytrahan

EDUCATION

SAN JACINTO COLLEGE
Pasadena, TX / 2017-2019

Major: Geology
Degree Earned: None
Graduated: Transferred

UNIVERSITY OF PUERTO RICO-MAYAGUEZ
Mayaguez, Puerto Rico / 2019-2023

Major: Geology
Degree Completing: Bachelor of Science
Graduation Date: June 17, 2023
GPA: 3.67, Major GPA: 3.46 (Honors: Magna Cum Laude)

AREAS OF INTEREST

Volcanology
Seismology
Landslides
Geological Hazards
Geophysics

Relevant courses: All classes required for graduation with a BS Geology at UPRM. Additionally: Calculus 3, Volcanic Hazards, Geologic Hazards, Tectonics, Physical Volcanology, Geology Special Topics (Volcanology research, Petrology research), Economic Geology

PERSONAL SKILLS

Hard Worker
Organization
Detail Orientated
Exceptional Analytical/Problem Solver
Research / Scientific Paper Writing

Data Analysis
Presenting Research
Quick Learner
Steep-Curve Learner
Flexible to Team or Solo Work
Meets Deadlines / On-Time
Reliable

Communication
Adaptable
Terminate CAT5/6 Cable
Pod Cable Whip
English (Fluent)
Spanish (Moderate)
German (Basic-Conversational)

SOFTWARE KNOWLEDGE

ObsPy
Jupyter Notebook
C++
Seismodule Controller Software (SCS)
ArcMaps (ArcGIS)
Adobe Illustator
Adobe Premiere
Structure for Motion (Beginner)
AGISoft
Work Bench
Microsoft Office Applications:
One Note, Word, Excel, Power Point
Cap Cut Pro
Handbrake
Canva

Starfix NG (2024)
Starfix.Acoustics
Star Cap
Sonardyne Ranger 2
Kongsberg APOS
Janus Sprint INS
MS1000
SeaTerm
IOWIN
FOXX Control
ARIS
Deep View
Fusion 2
Kongsberg SeaPath 380
Blue View
Trimble GPS
IXBlue / IXSea Quadrans

NTPQC
NPort Administrator
Barrier / Mouse Without Borders / Input Director
PuTTY
MOOG
Message Manager
Starfix Domain
Vessel Editor
Mimer Soft Radio
VNC
Beyond Compare
SIS5 / Watchdog
Ivanti Secure Access Client
Reolink Client (Video Cameras)
Ring Central
DOME Logger

EQUIPMENT USED († = Mobilized / Installed)

Surface Seismic Geophones
Shear Wave †
P-Wave †
PEG-40 (Accelerated Weight Drop)
Post-Hole Seismometer
Trilium 120PH
Vault Seismometer
Gurlap CMG (3T, 40T)
RT151B 120s
Trilium 120QA
Digitizers
Q330
Centaur
Reftex 130
Soil Hydrologic Monitoring Station †
Geode Exploration Seismograph †
Raspberry Shake
Sonardyne Compatt 6G+ †
DC RATT †
Sonardyne ROVNAV 6 †
Sonardyne SPRINT-Nav †
Seabird 19+ †
Pressure Modules
DigiQuartz Paro (2000m, 270m, 130m) †
Valeport uvSVX †
Valeport Midas SVX2

Valeport Mini SVS †
Surface Gyro
TSS Meridian †
SGBrown 2000 †
IX Blue Qudrans †
Subsea Gyro
IXSea Octans 3000 †
TSS Subsea Orion †
GPS Antennas / Recievers
Trimble
Antenna †;
BX551, BX852, BX992) †
Alison †
iWand
USB Head
Kongsberg HiPAP †
Sondardyne Lodestar †
USB Pole Winch
FOXX Bottle †
Beacons
Sonardyne WSM 6G+ †
Kongsberg C-Node †
Synology †
MOXA †
DVL †
Barometer †

Valeport Midas Bathy 2 with Altimeter
Multibeam
Sidescan: Edgetech 4200
TVG Magnetometer
GeoMarine Head Buoy
GeoMarine Sparker
GeoMarine Tail Buoy
Pipetrackers TSS 440 & 660 †
Kongsberg MRU5 †
SeaPath 380
Seascout 35
Box Core
Drop Camera
CTD-Rosette
Tritech Gemini 720 Multibeam Sonar (4000m)
Greenline Laser STR Sealine MP GLL2
Valeport Altimeter VA500
Sonars
MS1000 †
ARIS with Pan & Tilt †
Teledyne BlueView †
Ocean Bottom Node (OBN)

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EXPERIENCE

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

JULY 2023 - JULY 2025

Fugro USA Marine Inc. Asset Integrity

Under Kevin Barron

- Position and monitor vessels both at the surface and subsea
- Map the seabed with various instruments
- Assist in various offshore construction and survey tasks

SLIDES-PR, OUTREACH TEAM MEMBER

AUGUST 2022 - JUNE 2023

University of Puerto Rico-Mayaguez / Dept. of Geology

Under Dr. K. Stephen Hughes

- Rebuilding the SLIDES-PR website
- Building & Managing the SLIDES-PR social media pages
- Organizing and attending events to communicate with the public about the SLIDES-PR project, goals and providing landslide education
- Assisting with field work, installation of soil hydraulic monitoring stations, and organizing data collected

AURUM, DATA MINING

JANUARY 2023 - JUNE 2023

SPECIAL TOPICS RESEARCH II

University of Puerto Rico-Mayaguez / Dept. of Geology, Auburn University

Under Dr. Thomas Hudgins

- Searching for research papers on O-isotopes from Skarn Garnets for the AURUM project

UNDERGRADUATE RESEARCH II

JANUARY - MAY 2022

University of Puerto Rico-Mayaguez / Dept. of Geology

Puerto Rico Seismic Network (PRSN)

Advisor: Dr. Elizabeth A. Vanacore

- Characterized the wavefield decay of the 2020 Mw 5.7 Magna, Utah seismic sequence
- ObsPy, Jupiter Notebook, Arc Maps

SPECIAL TOPICS RESEARCH I

AUGUST - DECEMBER 2021

University of Puerto Rico-Mayaguez / Dept. of Geology

Advisor: Dr. Lizzette Rodriguez Iglesias

- Photogrammetry/Terrain Mapping with Drone Footage of the Guatemala Volcanic Chain
- AGISoft, Structure For Motion, Arc Maps (ArcGIS)

SLIDES-PR, SUMMER RESEARCH ASSISTANT

SUMMER 2022

University of Puerto Rico-Mayaguez / Dept. of Geology

Under Dr. K. Stephen Hughes

- Re-organizing and taking inventory of research equipment
- Finalizing the Puerto Rico Municipality Landslide Susceptibility maps
- Assisting the installation & maintenance of hydro-meteorological landslide susceptibility monitors
- ArcGIS, Adobe Illustrator

UNDERGRADUATE RESEARCH I

AUGUST - DECEMBER 2021

University of Puerto Rico-Mayaguez / Dept. of Geology, Puerto Rico Seismic Network (PRSN)

Advisor: Dr. Elizabeth A. Vanacore

- Performed a quality assessment on the post-hole seismometers at the Puerto Rico stations.
 - ObsPy, Jupiter Notebook, Arc Maps, Post-Hole Seismometer Trilium 120PH, Vault Seismometers: Gurlap CMG (3T, 40T), RT151B 120s, Trilium 120QA; Digitizers: Q330, Centaur, Reftek 130.
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SURVEY EXPERIENCE

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

JUNE 6 - JUNE 13, 2025

Fugro USA Marine Inc. Asset Integrity

Party Chief: Daniel Shane Davis | Client: Deep Ocean & Subsea7 | Vessel: HOS Mystique

- LBL positioning, site clearance, assist ROV to follow pipeline riser. Mobed ROV and survey area.
- Equipment: Trimble GPS receivers, Alison antenna heads, SPRINT-Nav, DVL, FOXX Bottle, SAB Fiber, Seabird 19+, Digiquartz Paro, Mini SVS, Valeport Midas Bathy2 with Altimeter, Octans Subsea Gyro, C-Node Beacons, TSS Meridian Surface Gyro, Green Laser Line Generator STR Sealine MP GLL2, Lodestar USBL Head, HiPAP USBL Head, Valeport Altimeter VA 500, Valeport uvSVX, Sonardyne 6G MF OMNI COMPATT, MOXA NPort, Multiple PC stations and monitors around vessel. All mobed on two HD Schilling ROVs & TMS.
- Software: Starfix NG (2024), Fusion 2, SPRINT, FOXX Control, IOWIN, Star Cap, Trimble GPS, Lodestar, APOS, Mouse Without Borders, DOME

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

APRIL 24 - APRIL 27, 2025

Fugro USA Marine Inc. Asset Integrity

Party Chief: Joe Bynog | Client: Offshore Liftboats LLC | Vessel: L/B Joni

- Assist liftboat near structure
- Equipment: Trimble BX551 receivers for position and heading (TOPs), MS1000 Sonar, Sonar Tree
- Software: Starfix NG (2024), MS1000

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

MARCH 31 - APRIL 2, 2025

Fugro USA Marine Inc. Asset Integrity

Party Chief: Romelle Ollivierre | Client: Chevron | Vessel: L/B Memphis

- Assist liftboat near structure
- Equipment: Trimble BX551 receivers for position and heading (TOPs), MS1000 Sonar, Sonar Tree
- Software: Starfix NG (2024), MS1000

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

MARCH 31 - APRIL 2, 2025

Fugro USA Marine Inc. Asset Integrity

Party Chief: Scott Labarbra | Client: BP & C-Innovation | Vessel: Chouest C-Constructor

- Assist with USBL Subsea Tree Orientation, Buoy Set, and BOEM Survey
- Equipment: Trimble BX852, IXBlue Octans, IXBlue Quadrans, SAB, Star Tech, MOXA NPort. Mobed on a UHD Schilling ROV
- Software: Starfix NG, NPort Administrator, StarCap, Trimble GPS

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

JAN 2 - JAN 4, 2025

Fugro USA Marine Inc. Asset Integrity

Party Chief: Brenden Humble | Client: GOM Shelf, LLC | Vessel: L/B Nashville

- Assist liftboat near structure
- Equipment: Trimble BX551 receivers for position and heading (TOPs), MS1000 Sonar, Sonar Tree
- Software: Starfix NG (2024), MS1000

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

OCTOBER 12 - NOVEMBER 8, 2025

Fugro USA Marine Inc. Asset Integrity

Party Chief: Jonathan "JC" Charles | Client: Exxon | Vessel: Fugro Brasilis

- Remote Operations (ROC); EBS Operations: Plankton Trawls, Video Transect, Box Cores; CPT Operations: Ball Penetrator (BPT), PCPT; USBL Positioning
 - Equipment: Trimble BX992, C-Node Beacons, Seascout35, Box Core, Drop Camera, ABS CTD- Water Rosette
 - Software: Starfix NG (2024), Kongsberg Seapath 380, Kongsberg APOS, Input Director, Fugro Remote Support System, Message Manager, Mimer Soft Radio, Trimble GPS, NPort Administrator
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SURVEY EXPERIENCE (CONTINUED)

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

JULY 16 - SEPTEMBER 1, 2024

Fugro USA Marine Inc. Asset Integrity

Party Chief: Jason Linton & JD Brassard | Client: Thayer Mahan | Vessel: HOS Bayou

-UXO identification & relocation, Debris relocation, USBL

-Equipment: Trimble GPS receivers BX551 & BX852, SPRINT-Nav, FOXX Bottle, SAB Fiber, Seabird 19+, Digiquartz Paro (shallow water), Mini SVS, ARIS with Pan & Tilt, SGBrown2000 Surface Gyro, TSS Meridian Surface Gyro, Sonardyne WMS 6+ Beacons, Pipetracker TSS 660, Lodestar USBL Head, Kongsberg HiPAP USBL Head, BlueView, RHIB & ROLS boats, Synology NAS. All mobed on two HD Schilling ROVs & TMS.

-Software: Starfix NG (2024), Ranger 2, SPRINT, FOXX Control, IOWIN, Star Cap, Trimble GPS, Lodestar, Mouse Without Borders, Barrier, Seaterm, Message Manager, Deep View, ARIS, Blue View, WorkBench, VNC, NPort Administrator, Beyond Compare, DOME

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

MAY 14 - JUNE 13, 2024

Fugro USA Marine Inc. Asset Integrity

Party Chief: JD Brassard | Client: Thayer Mahan | Vessel: Northstar Navigator

-Debris relocation, USBL

-Equipment: Trimble GPS receivers: BX551, BX852, & BX992; SPRINT-Nav, FOXX Bottle, SAB Fiber, Seabird 19+, Digiquartz Paro (shallow water), Mini SVS, ARIS with Pan & Tilt, IXBlue Octans, IXBlue Quadrans, Sonardyne WMS 6+ Beacons, Pipetracker TSS 440, Lodestar USBL Head, BlueView, Synology NAS. All mobed on two HD Schilling ROVs & TMS.

-Software: Starfix NG (2024), Ranger 2, SPRINT, FOXX Control, IOWIN, Star Cap, Trimble GPS, Lodestar, Barrier, Seaterm, Message Manager, Deep View, ARIS, Blue View, WorkBench, VNC, NPort Administrator, Beyond Compare, DOME

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

APRIL 20 - MAY 1, 2024

Fugro USA Marine Inc. Asset Integrity

Party Chief: Ben Menzill | Client: Thayer Mahan | Vessel: HOS Warland

-UXO identification & relocation, Debris relocation, USBL

-Equipment: Trimble GPS receivers BX551 & BX852, SPRINT-Nav, FOXX Bottle, SAB Fiber, Seabird 19+, Digiquartz Paro, Mini SVS, ARIS, MRU5, TSS Meridian Surface Gyro, Kongsberg C-Node Beacons, Pipetracker TSS 440, Kongsberg HiPAP USBL Head, RHIB & ROLS boats, Synology NAS. All mobed on two HD Schilling ROVs & TMS.

-Software: Starfix NG (2024), APOS, SPRINT, FOXX Control, IOWIN, Star Cap, Trimble GPS, Barrier, Seaterm, Message Manager, Deep View, ARIS, WorkBench, VNC, NPort Administrator, Beyond Compare, DOME

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

MARCH 11 - MARCH 15, 2024

Fugro USA Marine Inc. Asset Integrity

Party Chief: Jonathan "JC" Charles | Client: Invenergy | Vessel: GO Pursuit

-Remote Operations (ROC); Survey Lines, Multibeam

-Equipment: Trimble GPS, Multibeam, Sidescan Sonar: Edgetech 4200, TVG Magnetometer, GeoMarine Head Buoy, GeoMarine Sparker, GeoMarine Tail Buoy

-Software: Starfix NG (2024), SIS5, WatchDog, Mimer Soft Radio, Ivanti Secure Access Client, Fugro Remote Support, Ranger 2, Reolink Client (Video Cameras), Star Cap, Input Director, Ring Central

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

NOVEMBER 8 - DECEMBER 2, 2023

Fugro USA Marine Inc. Asset Integrity

Party Chief: Daniel Shane Davis | Client: PXGeo & Western Geco | Vessel: Shelia Bordelon

-Seismic Node Deployment, USBL, INS

-Equipment: Trimble GPS, FOXX Bottle, Mini SVS, Digiquartz Paro, Seabird 19+, SPRINT-Nav, DVL, Sonardyne WMS 6+ Beacons, Sonardyne 6G+ COMPATT, Synology NAS. All mobed on a Helix Schilling ROV

-Software: Starfix NG (2022 & 2024), Ranger 2, Janus SPRINT INS, IOWIN, FOXX Control, NPort Administrator, StarCap, VNC, DOME

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SURVEY EXPERIENCE (CONTINUED)

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

SEPTEMBER 25 - OCTOBER 4, 2023

Fugro USA Marine Inc. Asset Integrity

Party Chief: John Schug | Client: Deep Ocean & Talos | Vessel: HOS Warland

-USBL, INS, placing mud mats

-Equipment: Trimble GPS, DC RATT, Mini SVS, Digitquartz Paro, Seabird 19+, SPRINT-Nav, Kongsberg C-Node Beacons, Sonardyne 6G+ COMPATT, Kongsberg HiPAP USBL head. All mobed on two HD Schilling ROVs.

-Software: Starfix NG (2022), APOS, Janus SPRINT INS, IOWIN, FOXX Control, Seaterm, NPort Administrator, StarCap, VNC, DOME

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

AUGUST 6 - SEPTEMBER 16, 2023

Fugro USA Marine Inc. Asset Integrity

Party Chief: Chris Brandt | Client: Helix | Vessel: Shelia Bordelon

-Seismic Node Recovery, USBL, INS

-Equipment: Trimble GPS, FOXX Bottle, Mini SVS, Digitquartz Paro, Seabird 19+, SPRINT-Nav, DVL, Sonardyne WMS 6+ Beacons, Sonardyne 6G+ COMPATT, All mobed on a Helix Schilling ROV

-Software: Starfix NG (2022), Ranger 2, Janus SPRINT INS, IOWIN, FOXX Control, NPort Administrator, StarCap, VNC, DOME

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

SEPTEMBER 25 - OCTOBER 4, 2023

Fugro USA Marine Inc. Asset Integrity

Party Chief: John Schug | Client: BP | Vessel: Island Performer

-LBL Buoy Set

-Equipment: Trimble GPS, DC RATT, Mini SVS, Digitquartz Paro, Seabird 19+, Sonardyne ROVNAV6, Sonardyne WMS 6+ Beacons, Sonardyne 6G+ COMPATT, SGBrown2000. All mobed on one ROV.

-Software: Starfix NG (2022), Starfix.Acoustics, IOWIN, FOXX Control, Seaterm, NPort Administrator, StarCap

FUGRO USA MARINE INC. - ASSISTANT SURVEYOR I

SEPTEMBER 25 - OCTOBER 4, 2023

Fugro USA Marine Inc. Asset Integrity

Party Chief: John Schug | Client: Chevron | Vessel: Valaris DS-18

-Metrology

-Equipment: Trimble GPS, DC RATT, Mini SVS, Digitquartz Paro, Seabird 19+, Sonardyne ROVNAV6, Sonardyne WMS 6+ Beacons, Sonardyne 6G+ COMPATT, TSS Meridian, IXSea Octans 3000. All mobed on one ROV.

-Software: Starfix NG (2022), Starfix.Acoustics, IOWIN, FOXX Control, Seaterm, NPort Administrator, StarCap

PRESENTATIONS

AMERICAN GEOPHYSICAL UNION (AGU)

DECEMBER 2022

Chicago, IL

Title: Characterization of the 2020 Mw 5.7 Magna, Utah Seismic Sequence Full Wavefield Decay

-ANSS Poster Session

-AGU Signature Sessions | Student Travel Grant Flash Presentation (Oral)

-AGU Student Travel Grant Donor Appreciation Networking Luncheon Speech

PUERTO RICO SCIENCE TRUST FORWARD RESEARCH SYMPOSIUM

NOVEMBER 2022

San Juan, PR

Title: SLIDES-PR (Storm-induced Landslide Impact Dynamics on Environment and Society)

-Poster session

UNDERGRADUATE RESEARCH PRESENTATION II

MAY 2022

University of Puerto Rico- Mayaguez | Dept. of Geology

Title: Characterization of the 2020 Mw 5.7 Magna, Utah Seismic Sequence Full Wavefield Decay

-Evaluation for undergraduate research II: oral presentation (*virtual*)

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UNDERGRADUATE RESEARCH PRESENTATION I

JANUARY 2023

University of Puerto Rico- Mayaguez | Dept. of Geology

Title: Quality Assessment of Puerto Rico Seismic Network Post-Hole Stations

-Evaluation for undergraduate research I: oral presentation (*virtual*)

34TH GEOLOGY SYMPOSIUM

UPCOMING

APRIL 4, 2023

University of Puerto Rico- Mayaguez | Dept. of Geology

Title: Characterization of the 2020 Mw 5.7 Magna, Utah Seismic Sequence Full Wavefield Decay

-Poster session

SEISMOLOGICAL SOCIETY OF AMERICA (SSA)

UPCOMING

APRIL 18, 2023

San Juan, PR

Title: Characterization of the 2020 Mw 5.7 Magna, Utah Seismic Sequence Full Wavefield Decay

-Poster session: Earthquake Source Parameters: Theory, Observations and Interpretations

ACTIVITIES

• Training Video Project

JANUARY - JULY 2025

◦ Fugro USA Marine Inc. - Asset Integrity Training Department

-Filmed & edited videos for: equipment unboxing, configuration and integration, and other tutorials

• Survey Boot Camp (Plymouth, England, UK)

JANUARY - FEBRUARY 2024

◦ Fugro USA Marine Inc. - Asset Integrity & Geophysical Departments

-Learned everything needed to be a successful surveyor. Classroom and Field Education.

• Vs30 Active Source Seismic Fieldwork (Volunteer Work)

MARCH 2022, APRIL 2023

◦ USGS & Puerto Rico Seismic Network (PRSN)

- Learned how to set up geophones, set up computer, record the data, and analyze the results

- Surface Seismic Geophones: Shear Wave & P-Wave, PEG-40 (Accelerated Weight Drop), Seismodule Controller Software (SCS)

SOCIETIES & ORGANIZATIONS

• Student Geological Society (SGE) - Geophysics Committee

AUGUST 2022 - JUNE 2023

◦ University of Puerto Rico- Mayaguez

• Seismological Society of America (SSA)

JANUARY 2023 - JUNE 2023

• American Geophysical Union (AGU)

OCTOBER 2022 - JUNE 2023

CERTIFICATIONS

• CITI: Research, Ethics, and Compliance Training

2022 - 2025

• First Aid / CPR AED Adult

EXPIRES JULY 2027

• BOSIET

EXPIRES JULY 10, 2027

◦ OPITO Approved, with CA-EBS, HUET, Fire-fighting, Self-rescue

• Qualified Rigger (Onshore & Offshore)

• Fugro Personnel Basket Transfer Safety

EXPIRES APRIL 21, 2025

• Fall Protection

EXPIRES JULY 2027

◦ OSHA 1926.500-503 Subpart M, OSHA 1910.21-30 Subpart D, Working at Heights ANSI Z359

• ISN Certifications

EXPIRES OCTOBER 2025

• OGUK

EXPIRES JUNE 2027

• Personnel Escort

◦ Fairlead Dock (Norfolk, VA)

Thank you!