



H3 Environmental, LLC  
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# Statement of Qualifications

January 2024

## Introduction

H3 Environmental is a small business founded in New Mexico in 2020. We provide radiological consulting services for all aspects of radioactive materials management, especially within the uranium fuel cycle.

H3 Environmental staff work with the owners of sites through all phases of licensing, operations, and decommissioning or reclamation of properties. We assist clients in meeting their strategic and regulatory goals throughout each project's life cycle.

## About Our Business

H3 Environmental consists of experienced professionals solving complex technical and regulatory challenges. We pride ourselves on innovation, integrity, and work ethic.

Our team brings expertise in health physics, radiochemistry, and environmental health to offer uniquely customized, defensible solutions and support. We are committed to providing scientifically sound work products of the highest quality.

## Specific Expertise

- Radioactive materials license preparation, maintenance, and termination
- Radiological measurements, monitoring, analysis, and reporting
- Planning and support for site characterization, decommissioning, final status surveys, release of property, and waste management within US Nuclear Regulatory Commission (NRC), US Environmental Protection Agency (EPA), and State frameworks
- Radiation safety training and auditing
- Development and implementation of radiation protection programs
- Spatial data presentation and analysis using geographic information systems (GIS) software and associated data management



## Experience

Our staff brings over 35 years combined experience licensing new facilities, drafting license amendments for currently licensed sites, decommissioning, and reclamation planning for NRC, EPA, and US Department of Energy (DOE)-regulated sites as well as interfacing with State and local authorities.

Our staff can serve as Radiation Safety Officers (RSOs) for NRC and Agreement State radioactive material licenses. We are currently serving as RSO for one NRC licensee and two Agreement State licensees.

Our team includes Certified Health Physicists and radiation protection and environmental science specialists familiar with the following frameworks:

- MARSSIM, MARSAME, and MARLAP guidance for sample plan development and analytical approach (including Visual Sample Plan software)
- Dose modeling and compliance demonstration using RESRAD family of codes, EPA PRG tool, CAP88, MILDOS, and MICROSIELD
- Statistical data analysis using R, JMP, and ProUCL
- Field data collection including global positioning system (GPS)-based radiation surveys and surface and near-surface soil sampling
- Geographic Information System (GIS) data management including ArcMap and ArcGIS Pro

## Client List

We are currently working with:

- Rio Algom Mining LLC licensed sites in New Mexico and Utah and former uranium mines
- Arcadis former rare earth element processing facility
- Rare Element Resources rare earth element separation and processing demonstration plant
- Precision Castparts Corporation regulatory consultation related to waste management, naturally occurring radioactive material, and legacy site management
- Blackstreak Holdings, LLC environmental characterization
- Eagle Foundry Company final status survey to terminate source material license
- Wright Environmental Services Inc. consultation on uranium recovery facility licensing and decommissioning



## Project List

### *Radiation Safety Officer Support (NRC and Agreement State Licenses)*

Administering radiation protection and environmental monitoring programs, including:

- Radiological oversight of construction, operation, maintenance, and decommissioning activities,
- Development and maintenance of site-specific policies and procedures for two former uranium mills and one new-build rare earth element processing facility (NM, UT, WY),
- Performing annual radiation awareness training for all site personnel as required by the regulator,
- Facilitating routine and event-based site regulatory inspections as well as any other site-related regulatory interaction,
- Records management,
- Routine site inspections for radiation protection and environmental monitoring program compliance,
- As low as is reasonably achievable (ALARA) program audits,
- Coordinating equipment maintenance and calibration, and
- Emergency response planning.

### *Environmental Monitoring, Ambrosia Lake Facility, McKinley County, NM*

Monitoring consists of deploying, retrieving, and analyzing radon track etch detectors, as well as reporting results in semiannual effluent monitoring reports to the NRC. Reports include analysis of data for trends as well as the creation and integration of GIS data.

### *Strategic and Technical Support for Uranium Mine Closure, Ambrosia Lake Facility, McKinley County, NM*

Strategic planning and technical support to develop closure strategy for multiple uranium mines.

### *Amendments to NRC Source Material License SUA-1473, Ambrosia Lake Facility, McKinley County, NM*

Comprehensive license amendment support for client's NRC source material license, including internal auditing of requirements, preparation of license amendment requests, negotiating license amendment scope agreeable to all parties, and responding to NRC's Requests for Additional Information.

### *Soil Decommissioning Plan, Ambrosia Lake Facility, McKinley County, NM*

Updating the facility's NRC-approved soil decommissioning plan including developing an approach for non-radiological constituents, subsurface contamination, and final status survey strategy. Project scope also includes development of technical memoranda evaluating historical sampling work and recommendations to address data gaps to streamline regulatory closure.



#### ***Soil Characterization Surveys, Ambrosia Lake Facility, McKinley County, NM***

Shielded gamma surveys of over 1000 acres both on foot and by UTV to characterize gamma-emitting radionuclides in soil. Developed a workplan, established and validated data against data quality objectives, routinely performed checks and maintenance of screening equipment, and managed acquired data using GIS. Prepared reports suitable for delivery to NRC.

#### ***Characterization Surveys, Lisbon Facility, San Juan County, UT***

Performing gamma surveys and soil sampling to characterize radionuclides in soil. Developed a workplan, established and validated data against data quality objectives, routinely performed checks and maintenance of screening equipment. Performed soil sampling to evaluate site-specific correlation between gamma count rate and concentration of radium-226 in surface soil. Produced data summary reports and technical memoranda evaluating gamma survey and correlation results.

#### ***Historical Site Assessment of Former Uranium Mines and Mills***

Developing historical site assessments (HSAs) through the research of historical documents, geodata, analytical data, and imagery. HSAs have included information on environmental setting, description of ore grade and production, permits, licensing, waste handling procedures, reclamation activities, and all relevant surveys and environmental disturbances. Conducted soil sampling and facilitated laboratory analysis to further supplement the HSA with necessary data. Identification and organization of key historical mine-and mill-related records critical to site closure.

#### ***New Facility Licensing, Weston County, WY***

Prepared technical and environmental reports for a new NRC source material license application for a rare earth element separation and processing demonstration plant. This license was issued by the NRC in July 2023. Concurrently developing radiation protection and environmental monitoring programs for the demonstration plant to meet NRC requirements.

#### ***License Termination, OR***

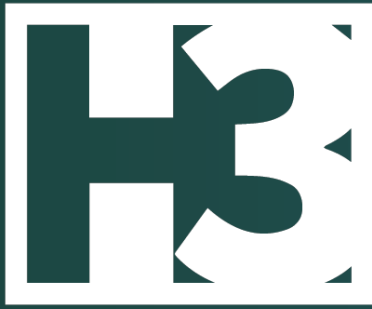
Developed and implemented a final status survey to support termination of an Agreement State source materials license, including characterization of land areas and structures.

#### ***Decommissioning Support at Mountain Pass, Primm, NV***

Providing radiological oversight of operation, maintenance, and decommissioning activities associated with a former waste disposal pond for a rare earth element mining facility. Workplan development, implementation, reporting and remediation support for the former waste disposal pond and strategic and regulatory support for site closure.

#### ***Naturally Occurring Radioactive Material - Support for Industrial Manufacturing and Waste Management***

Providing interpretation and guidance related to the management of NORM and waste in the commercial production of manufactured industrial goods in various State regulatory frameworks. Creating and managing data systems to support strategic decision making while ensuring compliance with applicable regulations.



ENVIRONMENTAL

*Jackpile-Paguate Remedial Investigation and Feasibility Study, Laguna, NM*

Development of Remedial Investigation and Feasibility Study (RI/FS) including a strategy for implementing airborne contaminant monitoring.



## Our Team

### **Mike Schierman, CHP**

Principal Health Physicist

[mike.schierman@h3enviro.com](mailto:mike.schierman@h3enviro.com)

(505) 317-4416

#### **Experience (26 Years Relevant)**

##### *Radiation Safety Officer, Uranium Mill Closure Sites*

Radiation Safety Officer at two uranium mill closure sites; one regulated by the Nuclear Regulatory Commission, and the other by an agreement state.

##### *Radiological Final Status Survey of Buildings, Former Naval Weapons Station, Concord, CA*

Performed QA/QC and occasional advisory role in the sampling and survey effort to support the Final Status Survey of several naval buildings. Mr. Schierman assisted in review of Final Status Survey Reports.

##### *Reconnaissance-Level Characterization of Select Buildings with "Old Town" area of the Lawrence Berkeley National Laboratory, Berkeley, CA*

Performed as the Radiological Sample Manager for the reconnaissance-level characterization of building used primarily for research laboratories and secondary support facilities to the 184-inch cyclotron. Radiological surveys of walls, ceiling, and floors and volumetric sampling of equipment, piping, sumps, and building materials was conducted. Radiological survey data and analytical results were reported in three dimensions, using a combination of ArcView GIS® and Google Sketch Up®.

##### *Characterization of Above-Grade Structures, DP West, Technical Area 21, Los Alamos National Laboratories, Los Alamos, NM*

Performed as sample manager and lead work plan author for characterization of approximately 50,000 square feet of structures built as part of the world's first large scale plutonium production facility. The data collection effort included an automated low energy photon survey of building floors, using the 3-DISS system appointed with an array of FIDLER detectors. Traditional radiological surveys of walls, ceiling, and equipment and volumetric sampling of equipment, HEPA and HVAC systems, piping, sumps, and building materials were also conducted. A variety of PPE and containments (including HEPA vacuum-controlled) were employed to protect workers and prevent migration of contaminants. Other work included sampling for asbestos and beryllium, XRF screening for lead, and field tests for perchlorate, using methylene blue as an indicator. Radiological survey data and analytical results were reported in three dimensions, using a combination of ArcView GIS®, AutoCAD® and Google Sketch Up®. Contaminants observed included heavy metals and the following radionuclides: tritium, americium-241; and isotopes of uranium and plutonium.



***Development of Radiological Remedial Action Work Plan for the Marsulex, Ore Storage, Sulfur and Chloride/Research Areas. National Lead Industries Site. Sayreville, NJ***

Primary author of the radiological component of a Remedial Action Work Plan (RAWP) for a radiologically contaminated site. The RAWP was MARSSIM based for the land area.

***Pipeline Removal Project, Mountain Pass, CA***

Radiation Safety Officer (RSO) for a project which involves removing 15 miles of wastewater pipe containing pipe scale elevated with naturally occurring radionuclides. Developed the radiation protection program and oversees remedial activities as they relate to radiation protection and soil cleanup.

***Baseline Radiological Investigation, Multiple Uranium Mine and Mill Sites***

Developed, implemented, and presented the results of a Baseline Radiological Investigations of multiple uranium mines and mills (both conventional and in-situ recovery). The baseline investigations included evaluations of soil, ambient external radiation, biota, and ambient radon-222 in air. Investigations have been in support of both license applications, renewals, and terminations.

***Baseline Radiological Investigation, Dewey-Burdock Uranium Project, Edgemont, SD***

Developed, implemented, and presented the results of a Baseline Radiological Investigation at a proposed uranium in situ recovery (ISR) facility near Edgemont, South Dakota. The baseline investigation included evaluation of soil, air, ambient external radiation and biota. The Baseline Radiological Investigation Report was included as part of license application for a uranium in-situ recovery site. This project has been issued a radioactive materials license by the USNRC.

***License Application and Dose Assessment, Bear Lodge Project, Upton, WY***

Performed prospective radiation dose assessments, both public and occupational, to support an Environmental Impact Statement (EIS) and USNRC license application for the Bear Lodge Project. The Bear Lodge Project is a proposed rare earth recovery facility with the raw material containing naturally occurring uranium and thorium. AERMOD was used to model atmospheric transport of particulates and radon gas in a very complex terrain environment. The results of the AERMOD modeling were used to assess the radiological dose to the public potentially attributable to the facility.

***Baseline Radiological Investigation, Bear Lodge Project, Sundance, WY***

Developed and implemented a Baseline Radiological Investigation at a proposed rare earth mining facility near Sundance Wyoming. The baseline informed a license application and EIS, both submitted to the USNRC.

***Public Dose Assessment, Ludeman Uranium Project, Casper, WY***

Performed a prospective radiation public dose assessment to support an Environmental Report (used for an environmental impact statement) and USNRC license application for the Ludeman Project. The Ludeman Project is a proposed in-situ uranium recovery facility located near Casper Wyoming. MILDOS-AREA was used to model atmospheric transport of particulates and radon gas in a complex terrain environment. The results of the modeling were used to assess the potential radiological dose to the public attributable to the facility.



## Education

Colorado State University, MS, Health Physics	1994
University of Nevada, BS, Geological Sciences	1991

## Certifications and Skills

### *Certifications*

Certified Health Physicist, 2007; OSHA 40-hr HAZWOPER Supervisor; 40-hr RSO Training; DOT Shipper Training for Radioactive Materials, AHA First Aid/CPR/AED Certified

### *Professional Registrations / Affiliations*

Member, American Board of Health Physics; Member, Health Physics Society-Plenary





## **Jess Joyce, CHP**

Health Physicist

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(505) 317-6089

### **Experience**

*H3 Environmental, Health Physicist, Rochester, MN, Jun 2020 – Present*

Developing, implementing, and auditing radiation protection and environmental monitoring programs for uranium recovery and rare earth facilities. Project lead for licensing actions, historical site assessment, and technical basis development.

*Environmental Restoration Group, Health Physics Consultant, Rochester, MN, Apr 2018 – Jun 2020*

Supported closure/closeout planning, survey and release of land impacted by uranium mining and milling in New Mexico, Utah, and Wyoming, data analysis, developing plans and reports consistent with federal and state guidance.

*M.H. Chew & Associates, Health Physicist, Rochester, MN, Jul 2018 – Jun 2020*

Supporting triennial assessment of radiation protection programs at Argonne National Laboratory.

*Los Alamos National Laboratory, Health Physicist, Los Alamos, NM, Jun 2014 – Sep 2016*

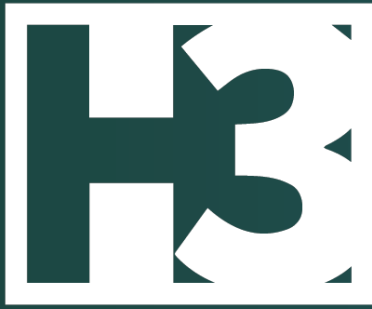
Ensured institutional compliance with DOE Order 458.1 including radiological dose and ALARA assessment. Conducted atmospheric dispersion modeling using NARAC, HotSpot, EpiCode, and CAP88 codes. Supported site-wide emergency response exercises and compliance with 40 CFR 61 radiological NESHAPs requirements. Developed MARSSIM/MARSAME-based radiological release surveys to support property transfer to the public and personal property (material) release to offsite facilities.

### **Education**

Colorado State University, <i>MS, Radiological Health Sciences</i>	2014
Colorado State University, <i>BS, Environmental Health</i>	2014
Studies abroad at Fukushima University, Japan	2014
Studies abroad at and Universidad de Granada, Spain	2012
Minors in Music (Viola Performance) and Spanish May	

### **Certifications and Skills**

*Certifications:* Certified Health Physicist (2021), OSHA 40-hr HAZWOPER, 8-hr HAZWOPER Supervisor, DOT UN2910, AHA First Aid/CPR/AED



**ENVIRONMENTAL**

*Professional Affiliations:* Health Physics Society (Mentorship Committee Chair 2022-2023, Membership Committee 2021-2023), Environmental/Radon Section and Women in Radiation Protection Section, North Central Chapter (President 2022-2023), American Academy of Health Physics

*Skills:* Office Suite, Endnote, ProUCL, Visual Sample Plan, RESRAD family, EPA PRG, CAP88, HotSpot, ArcPro



## **Chrissy Allen**

Environmental Scientist

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(505) 317-4636

### **Experience**

*H3 Environmental, Environmental Scientist, Albuquerque, NM, Jun 2020 – Present*

Project lead implementing GPS-based gamma radiation surveys and soil sampling, including developing work plans and reports. Supports historical site assessment research and document preparation, developing technical basis documents, and using GIS to create figures and maintain spatial and analytical data.

*Environmental Restoration Group, Environmental Scientist, Albuquerque, NM, Feb 2020 – Jun 2020*

Performed radiological site characterization and sampling field work, including conducting gamma radiation surveys, collecting radon flux measurements, and soil sampling.

*Tetra Tech EMI, Geologist, Albuquerque, NM, Jan 2018 – Feb 2020*

Performed investigation fieldwork for abandoned uranium mines, including sample collection of various environmental media, x-ray fluorescence surveys, gamma radiation surveys, groundwater monitoring, geologic site mapping, and geotechnical drilling and field oversight. Assisted in data entry and analysis, technical writing, project reporting, and conducting human health risk assessments. Participated in community outreach within tribal communities on the Navajo Nation. Performed an EPA oversight role for a former uranium mine CERCLA site.

### **Education**

University of New Mexico, *MS, Earth and Planetary Sciences*

2017

University of New Mexico, *BS, Geological Sciences*

2014

### **Certifications and Skills**

*Certifications:* OSHA 40-hr HAZWOPER Supervisor, AHA First Aid/CPR/AED certified, Navajo Nation EPA Cultural Sensitivity Training, DOT UN2910

*Skills:* Office Suite, ProUCL, Adobe Illustrator, Grapher, ArcGIS Pro, JMP, EPA PRG, RESRAD



## **Tom Bottomly**

Environmental Scientist

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(505) 317-6676

### **Experience**

*H3 Environmental, Environmental Scientist, Albuquerque, NM, June 2020 – Present*

Project lead for multiple field efforts including scoping and characterization surveys and sampling. Responsible for creating, organizing, and maintaining spatial and non-spatial data as well as performing data analysis, figure creation, and report writing tasks.

*Environmental Restoration Group, Environmental Scientist, Albuquerque, NM, Jan 2019 – Jun 2020*

Performed radiological site characterization and sampling field work, including gamma radiation surveys, radon flux, and soil sampling. Quality assurance, processing and analysis of field-derived data. Helped in the production of radiological procedures and work plans. Gained experience with radiological instrumentation. Extensive GIS experience.

*Post-Remediation Radiological Investigation, Jackpile Uranium Mine, Pagate, NM*

Implemented a radiological investigation of a previously remediated open-pit uranium mine located near Pagate, NM. The investigation included evaluations of ambient external radiation, soil sampling for radium-226 correlation to gamma count rate, and ambient radon-222 sampling.

### **Education**

University of New Mexico, *BS, Environmental Science*

2018

### **Certifications and Skills**

*Certifications:* OSHA 40-hr HAZWOPER Supervisor, AHA First Aid/CPR/AED certified, DOT UN2910, 8-hr HAZWOPER Supervisor

*Skills:* ArcGIS Pro, ArcMap; Office Suite, Visio, SketchUp, Visual Sampling Plan, JMP, Office Suite, EPA PRG, Rockware Rockworks, R programming, EndNote, R programming, SketchUp, MILDOS



## **Will Schaffer**

### **Business Operations Manager**

[will.schaffer@h3enviro.com](mailto:will.schaffer@h3enviro.com)

(505) 317-4623

### **Experience**

*H3 Environmental, Business Operations Manager, Albuquerque, NM, Jan 2021 – Present*

Responsible for business development, human resources, procurement, contract implementation, and financial planning. Client facing activities include project management and execution, proposal curation, records management, oversight of project budgets, and the development of Decommissioning Funding Plans.

*Mt. Taylor Hotshots, Wildland Firefighter, Grants, NM, Jul 2015 – Oct 2020*

Established and built specific qualifications to provide initial attack on wildfires in the U.S. with elite wildland firefighters. Gained leadership capabilities to strategically plan and execute safest tactical course forward. Position required adaptability to high stress situations, strategic planning and execution, advanced communication skills, physical fitness, and mental discipline.

*Ahmad Assed & Associates, Legal Assistant, Albuquerque, NM, Jan 2020 – May 2020*

Headed the personal injury division working as a liaison between clients and attorneys. Position required integration of specialized oral and written communication skills with high level organizational competence to meet critically important deadlines. Composed and revised legal documents including demand letters, depositions, and court filings.

*Plasencia Cigars, Lead Account Manager of Southwest Sales, Jun 2018 – March 2019*

Oversaw end-to-end logistics of supply chain operations to ensure accurate and consistent order fulfillment to end consumers. Responsible for brand growth, customer relationship management, product visibility in partnering retailers, development of marketing materials, and event planning.

### **Education**

University of New Mexico, MBA, Financial Management

In Progress

University of New Mexico, BBA, International Business

2017

### **Certifications and Skills**

*Certifications:* AHA First Aid/CPR/AED certified, DOT UN2910

*Skills:* Microsoft Office Suite, Salesforce, Intermediate Spanish fluency, Supply Chain Management, Strategic Management, Project Management



## **Elon O'malia**

**Geographer/Data Manager**

[Elon.omalia@h3enviro.com](mailto:Elon.omalia@h3enviro.com)

(505) 312-6401

### **Experience**

*H3 Environmental LLC, Geographer/Data Manager, Albuquerque, NM, Jan 2021 – Present*

Primary duties include the creation, organization, and maintenance of spatial and non-spatial data relating to the delineation and reclamation of radiologically impacted areas. Additional duties include project management of various field projects from work plans through reporting.

*PAE, AutoCAD and GIS Technician, Albuquerque, NM, July 2019 – Jan 2020*

As part of the Mapping and Drafting group within the Civil Engineering Department on Kirtland Air Force Base, maintained, organized, and created spatial data for utilities, buildings, and planning infrastructure. Produced large format wall maps and technical map books and conducted various GPS-based field surveys for construction and utility placement projects.

*EA Engineering, Science, and Technology, Inc., PBC, Environmental Scientist III, Albuquerque, NM, Oct 2015 – April 2019*

Report coordinator for Kirtland Air Force Base jet-fuel spill remediation project – Coordinated the production of quarterly groundwater, soil vapor, and drinking water monitoring reports (four per year) ranging between 15,000- and 46,000-pages including text, tables, figures, and data files. Wrote text, created and formatted tables, composed and produced figures in ArcGIS, responded to comments from internal and external clients, and oversaw the compilation of documents into final deliverables. Additionally, produced monthly technical memorandum letters including text, tables, and figures for various projects.

Groundwater sample coordinator and field manager for Kirtland AFB jet-fuel spill remediation project - managed up to eight junior scientists in the collection of groundwater, soil vapor, and drinking water samples from over 400 sampling locations. Prepared schedules, organized barricade permits, communicated sampling agenda to partner agencies, and assisted with budgets and project management tasks. Created and maintained Microsoft Access databases to assist with investigation-derived waste management and produce sample labels and field forms. Generated GIS figures for numerous projects.

*University of Minnesota Duluth, Research and Teaching Assistant, Duluth, City, MN, Aug 2013 – Jun 2015*

Designed and implemented master's thesis project. Modeled spatial and temporal aquatic invasive species introduction patterns caused by human activity in the Great Lakes. Communicated research results through technical writing and scientific presentations at the Society for Freshwater Science and the American Fisheries Society conferences. Participated in fish sampling using fyke-nets, beach seines, benthic sleds, and electrofishing equipment as well as processed samples for stable isotope mass spectroscopy and otolith aging. Taught four freshman biology laboratory and lecture sections.

*City of Longmont, Wastewater Treatment Operator, Longmont, CO, Jun 2012 – May 2013*



Performed daily water quality laboratory analysis to assess treatment efficacy using multiparameter photometers, DO and pH probes, and microscopy. Adjusted treatment parameters and maintained equipment to ensure proper operations. Developed SCADA (Supervisory Control and Data Acquisition) user-interfaces to monitor and control treatment processes remotely.

*Cartographic/GIS Technician, The Nature Conservancy, Longmont, Co, Jan 2012 – June 2012*

Created digital property maps from legal descriptions and aerial photography. GIS and GPS hardware and software support and training. Digitized land parcels for use in priority acquisition identification.

*City of Boulder, GIS Technician, Boulder, CO, Jan 2008 – Jun 2010*

Maintained, organized, and analyzed spatial and non-spatial data. Created and maintained Microsoft Access and SQL Server databases. Developed GIS models to identify critical habitat for spotted towhee and northern goshawk using metrics of vegetation structure, terrain characteristics, and human impacts. Contributed to the development of wildlife and vegetation monitoring projects through sample site selection, methodology, and data storage and analysis logistics. Trained employees in GPS and GIS software usage.

*Student Conservation Association, Intern, Organ Pipe Cactus National Monument, AZ, Mar 2007 – Aug 2007*

Collected spatial data on resource impacts created as a result of illegal immigration from Mexico into the United States. Used GPS units to map undesignated trails and areas of impact, and generated GIS figures. Developed a Microsoft Access database to store a photolog of resource impacts from road construction. Other duties included installing fencing on the US / Mexico border, and various wildlife surveys of fish, turtles, pronghorns, and reptiles.

## Education

University of Minnesota, M.S., Integrated Biosciences	2015
Red Rocks Community College, A.A.S Water Quality Management	2012
University of Pittsburgh, B.S. Biology, minor in Chemistry	2015

## Certifications and Skills

*Certifications:* 40-hr HAZWOPER and 8-hour HAZWOPER Supervisor, AHA First Aid/CPR/AED, DOT UN2910

*Skills:* Esri ArcGIS Software Suite (ArcMap and ArcPro) and GPS, Microsoft Access, SQL Server, Microsoft Office Suite, familiarity with programming languages: SQL, VBA, Python, and Arcade, AutoCAD, R statistic program, EQuIS, field collection software ESRI Field Maps, Survey123, and EQuIS Collect



## **Therese Kondash**

**Environmental Scientist**

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### **Experience**

*H3 Environmental, Environmental Scientist, Albuquerque, NM, Sep 2021 – Present*

Project lead for GPS-based gamma radiation surveys and soil sampling, including writing work plans and reports. Supports licensing actions, development of radiation protection and environmental monitoring programs, and maintaining spatial and non-spatial data.

*H3 Environmental, Student Intern, Albuquerque, NM, June 2021 – September 2021*

Completed capstone project using ArcGIS Pro to determine spatial extent of radiologically impacted areas.

*Colorado State University, Research Assistant in Department of Environmental and Radiological Health Sciences, Fort Collins, CO, Feb 2019 – May 2021*

Documented potential biases present in national storm and weather database and developed an R package to explore and plot the data.

*Colorado State University, Research Assistant in Department of Microbiology, Immunology, and Pathology, Fort Collins, CO, May 2019 – Dec 2019*

Performed mosquito sampling field work and laboratory analysis as part of a study regarding susceptibility and barriers to infection with Rift Valley Fever virus.

### **Education**

Colorado State University, B.S. Environmental Health

2021

### **Certifications and Skills**

*Certifications:* AHA First Aid/CPR/AED, ESRI ArcGIS Pro: Basics, DOT Shipper Training for Radioactive Materials, OSHA 40-hr HAZWOPER

*Skills:* Microsoft Office Suite, Microsoft Access, ArcGIS Pro, R programming, JMP, Visual Sampling Plan





## **Jordan Lesansee**

**Environmental Scientist**

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### **Experience**

*H3 Environmental, Environmental Scientist, Albuquerque, NM, October 2022 – Present*

Developed and initiated yearlong outdoor radon monitoring study in design, planning and field implementation. Co-authored soil background investigation study including ProUCL and JMP data analyses, GIS mapping, and field sample collection. Assisted development of radiation protection and environmental monitoring program material including procedure and program writeups. Regularly operate and test radiation detection instrumentation.

*H3 Environmental, Student Intern, Albuquerque, NM, June 2022 – October 2022*

Engaged in field data collection and reporting in summer soils study as part of senior capstone project. Assisted GIS mapping and data analysis/modeling. Presented capstone findings to H3 staff and client.

*Colorado State University Department of Environmental Health and Radiological Sciences, Research Assistant, Fort Collins, CO, November 2020 – May 2022*

Reviewed and edited lab operating procedures and prepared sampling instrumentation. Trained incoming research assistants on lab procedures and protocols.

*Brigham and Women's Hospital, Intern, Boston, MA, June 2020 – August 2020*

Assisted cancer research lab with technical report writing data input and journal article review. Co-authored scientific review on the emerging field of exercise cardio-oncology.

### **Education**

Colorado State University, B.S. Environmental Health

2022

### **Certifications and Skills**

*Certifications:* DOT UN2910, ESRI Pro Basics, Radiation Safety Awareness, AHA First Aid/CPR/AED OSHA 40-hr HAZWOPER

*Skills:* ProUCL, JMP, Microsoft Excel, Radiologic Field Sampling, ArcGIS, Technical Writing



## Chris Giralmo

Geographer/Data Manager

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(505) 312-6401

### Experience

*H3 Environmental, Geographer/Data Manager, Albuquerque, NM, March 2023 – Present*

Primary duties include the creation, and maintenance of spatial and non-spatial data relating to the delineation and reclamation of radiologically impacted areas. Utilizes geo-statistics to guide soil sampling strategies and to interpolate analytical results. Automating the creation of report-quality figures using Rstudio.

*University of New Mexico, Research Assistant, Albuquerque, NM, Feb 2020 – March 2023*

Researched environmental exposure in Indigenous communities to various pollutants such as uranium dust and smoke from waste dump fires using spatial modeling and machine learning. Produced figures and wrote text for multiple publications and presented the results from these studies to other researchers and Indigenous community members.

*Earth Data Analysis Center, Student Intern, Albuquerque, NM, Feb 2020 – Aug 2021*

Supported the Geospatial Lead Analyst with spatial analysis and data management tasks such as georeferencing historical imagery, geocoding addresses, and quality control.

### Education

University of New Mexico, MS, Geography	2023
University of New Mexico, BBA, Management Information Systems	2021
University of New Mexico, BS, Geography	2021

### Certifications and Skills

*Certifications:*, AHA First Aid/CPR/AED

*Skills:* R programming, Python, SQL, ArcGIS, Latex, Technical writing, Microsoft Excel, Microsoft Access, Javascript