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Over the past 3 years I have been working as a Pacific States Marine Fisheries Commission contractor for Tacoma Power. I regularly perform various fisheries technician duties (i.e., spawning ground surveys, PIT tagging, biosampling, fish identification and enumeration, etc.). In the past 2 years my duties have shifted to allow for more focus on data analysis, data visualization and continued education with various data software. I primarily use R, ArcGIS Pro, Tableau and Snowflake to complete various data visualization projects. I have a deep seeded passion for data science, data visualization and automation.

Employment

Fisheries Technician II Salkum - WA

PACIFIC STATES MARINE FISHERIES COMMISSION

- Continuation of Fisheries Technician I job duties
- · Database structuring and management
- Development of Shiny web applications
- Development of ArcGIS data products
- Development of ArcGIS training videos
- · Tableau dashboarding
- Data Pipeline Engineering (FME)
- Construct Data Reports
- · Confer with State Fisheries agency

Fisheries Technician I

PACIFIC STATES MARINE FISHERIES COMMISSION

- Spawning ground surveys
- · Camera creel analysis
- · PIT tagging
- · Broodstock biosampling
- In-Person creel
- · Water quality
- Operate juvenile and adult fish collection facilities
- Operate fish crowders
- · Repaired field equipment
- Assist with various aspects of fish transport

Graduate Research Assistant

WEST VIRGINIA UNIVERSITY

- Designed two research projects
- Hired and supervised a team of field technicians
- Assessed fish community response to anthropogenic stressors
- Backpack electrofishing
- · Identified fish to the species level
- Used ArcGIS to determine land use ratios, site selection and mapping
- Used R Statistical Software for statistical analyses
- Extensively researched background literature and prepared a detailed literature review

Field Technician Fairbanks - AK

University of Georgia

• Worked on the Drift Model Project

- Tested drift feeding behavior of Chinook Salmon, Dolly Varden, and Arctic Grayling
- Collected and cared for target fishes
- · Performed gastric lavage

SAINT FRANCIS UNIVERSITY

MARCH 2022

- Used underwater videography equipment
- · Spent up to four consecutive days in the field

Teacher's Assistant Loretto - PA

• Provided instruction and assistance to students in laboratory setting

- Assisted instructor with laboratory setup, laboratory cleanup, and exam administration

September 2020 -> Present

Salkum - WA

September 2019 -> September 2020

Morgantown - WV

May 2017 -> August 2019

May 2015 -> August 2016

August 2014 -> December 2014

Residents Assistant Loretto - PA

SAINT FRANCIS UNIVERSITY

August 2013 -> May 2014

- Promptly handled emergency situations
- Established good rapport with a diverse group of individuals
- · Learned good time management

Education

West Virginia University

M.Sc. Wildlife and Fisheries Resources 2016 -> 2019

• GPA 4.0/4.0

Saint Francis University

B.S. Marine Biology 2012 -> 2016

• Magna Cum Laude GPA 3.71/4.0

Saint Francis University

BIOLOGICAL DIVING MINOR 2012 -> 2016



Field

IDENTIFICATION AND ENUMERATION OF JUVENILE AND ADULT FISHES (BETTER THAN TREVOR), SPAWNING GROUND SURVEYS (FRESHER LEGS THAN TREVOR), FISH SORTING BY MARK TYPE (TREVOR IS BETTER AT THIS...IN HIS DREAMS!), CREEL (TREVOR CAN HAVE THIS ONE, IT SUCKS ANYWAY), OPERATION OF TACOMA POWER ADULT AND JUVENILE FISH COLLECTION FACILITIES (DESPITE MY LESSER EXPERIENCE, BETTER THAN TREVOR), PIT TAGGING (I SAW TREVOR DROP A FISH ONCE!), FAMILIARITY WITH TACOMA POWER PROJECTS AND OPERATIONS (WE BOTH KNOW NOTHING ABOUT THIS), BIOSAMPLING, ELECTROFISHING (SHOCKING NEWS, BETTER THAN TREVOR), SEINE NETTING (I HAVE INSEINLY MORE SKILL THAN TREVOR), TRAWLING (TREVOR DOESN'T KNOW WHAT THIS IS), GILL NETTING (TREVOR DOES THIS ILLEGALLY), GOPRO PHOTOGRAPHY AND VIDEOGRAPHY (TREVOR HAS TO CALL ME FOR HELP), RADIO TELEMETRY (TOSS UP BETWEEN TREVOR AND I), WATER QUALITY TESTING (BETTER THAN TREVOR), SWIFT WATER SAFETY (), RAFTING (TREVOR STILL HASN'T TAUGHT ME BECAUSE HE IS SCARED I'LL BE BETTER), ANGLING (HARD TO SAY, TREVOR WON'T INVITE ME FISHING), CAMPING, BOATING (SCOTT IS TEACHING US BOTH AND PERSONALLY TOLD ME I'M BETTER)

Programming Languages

R, SQL:ANSI, MySQL, PYTHON, JAVASCRIPT

Markup Languages

RMARKDOWN, LATEX, HTML, CSS

Dashboarding Software

SHINY, TABLEAU

Database Software

FME, Snowflake, AWS, Databricks, Git

Text Editors

RSTUDIO, AWS CLOUD9, VS CODE, NOTEPAD++

Microsoft

TEAMS, EXCEL, ACCESS, OUTLOOK, POWERPOINT, WORD, SHAREPOINT, OUTLOOK

Google Software

Docs, Sheets, Forms

Video/Photo Editing Software

Adobe Photoshop, Adobe Premier Rush

Other Languages

WRITTEN SPANISH

General

Time Management, Comfortable in both a team and individual setting, Able to successfully write a grant and receive funding, Leadership skills, Safety oriented

Shiny Applications

Tacoma Power Cowlitz River Salmonid Runtime Tracker

CLICK HERE FOR APP

Cowlitz River Salmonid Runtime Comparison Dashboard

CLICK HERE FOR APP

Cowlitz Trout Hatchery PIT Array Dashboard

CLICK HERE FOR APP

Research Experience

Cowlitz River Project Tacoma Power

TECHNICIAN

- Assessed camera creel methodology
- Monitored salmonid activity in the Upper Cowlitz River Basin
- Monitored escapement success during volitional hatchery releases

The Effects of Unconventional Oil and Gas (UOG) on Downstream Fish Communities

West Virginia University

PRINCIPLE INVESTIGATOR

- Selected sites using ArcGIS based on previous collected data and land use attributes
- Reanalyzed fish communities through backpack electrofishing following DEP protocols
- Identified all collected fish to the species level
- Statistically compared fish communities along a Before After Control Impact design using R
- Published manuscript

The Effects of Unconventional Oil and Gas (UOG) on Resident *Semotilus atromaculatus* stress levels

West Virginia University

PRINCIPLE INVESTIGATOR

- Selected sites using ArcGIS based on watershed land use attributes
- Collected *S. atromaculatus* from both impacted and reference streams using backpack electrofishing
- Collected blood samples from the caudal vein of the specimen in the field
- · Analyzed blood hematocrit levels in the lab
- Analyzed gill morphology in the lab
- Used R Statistical Software to analyze stress metrics
- Published manuscript

Age class distribution of *Semotilus atromaculatus* across a gradient of Unconventional Oil and Gas exposure

West Virginia University

PRINCIPLE INVESTIGATOR

- Selected sites using ArcGIS based on watershed land use attributes
- · Collected S. atromaculatus from both impacted and reference streams using backpack electrofishing
- Collected weight and length measurements from 469 S. atromaculatus specimen
- Removed asteriscus and lapillus otoliths from all specimen
- Mounted and Aged the otoliths
- Used R Statistical Software and FAMS to analyze the growth and age metrics
- Published manuscript

The Effects of an Allicin diet on *Ichthyophthirius multifillis*

Saint Francis University

PRINCIPLE INVESTIGATOR

- · Introduced *Ichthyophthirius multifiliis* to healthy *Poecillia latipinna* specimens to induce disease
- Injected allicin into food pellets and inoculated treatment groups
- Monitored the health of diseased fish
- · Performed routine water quality tests

Housing of Endotoxins in *Palythoa spp.* Zoanthid Corals

Saint Francis University

PRINCIPLE INVESTIGATOR

- *Palythoa spp.* corals were selected based on their known levels of Palytoxin
- Extracted dinoflagellates from individual species
- Monitored the effects of dinoflagellates on *Pimephales promelas*
- · Followed EPA protocols
- Published manuscript

North American Amphibian Monitoring Program

United States Geological Survey

FAD SURVEYOR

- Assessed the diversity of frogs through call identification
- Compiled and submitted data to USGS

Certifications

PADI SCUBA INSTRUCTOR

PENNSYLVANIA BOATING LICENSE

WASHINGTON DRIVER'S LICENSE

FME CERTIFICATE OF COMPLETION - GETTING STARTED WITH THE FME PLATFORM

Publications

- 1. Ankeny, J. N., Petty Ph.D., T. J., Phelps Ph.D., Q., & Merriam Ph.D., E. (2019). Analysis of unconventional oil and gas impacts on downstream FIsh assemblages and physiological stress. *Graduate Theses, Dissertations, and Problem Reports*, 3789. https://doi.org/https://doi.org/10.33915/etd.3789
- 2. Ankeny, J. N., & Shoemaker Ph.D., D. S. (2017). The housing of endotoxins in palythoa sp. zoanthid. *Spectrum Journal of Student Research at Saint Francis University*, 7(3).