**OBJECTIVE:** I desire to maximize the output of a team through innovation, science/technology, and good management practice.

**SUMMARY OF SKILLS: Data Analysis, Statistical Software, Microbial Research Techniques, Marine Science Research Techniques, Next-gen Sequencing, Fingerprinting, Perl Script, Galaxy Hub Suite (Blast, LefSE), MAC Terminal, R, Western Blotting**

**RESEARCH INTERESTS:**

**Microbiology, Marine Science, General Science**

**EDUCATION**

Master of Science (M.S.) **George Mason University, Fairfax, VA** August, 2018

Concentration: Microbial and Infectious Diseases

Continuing Education **University of Virginia, Charlottesville, VA**  May, 2016

Summer Field Course: Fish Identification

Bachelor of Science (B.S.) **College of William & Mary, Williamsburg, VA** May, 2015

Major: Biology

Minor: Marine Science

Adv. Dipl. and Language Dipl. **W&M Scholar C.D. Hylton High School** June, 2011

**RESEARCH & PROFESSIONAL EXPERIENCE**

**Dec 2017 – Current Marketing Content Writer and Researcher, Palladous Writing**

* Ghost writer for a company based in the United Kingdom
* Research and write articles on topics such as health, robotics, food, fitness, technology, travel, and green initiatives

**Jan 2016- Aug 2018 Research Assistant at George Mason University**

* Researched the micro biome of American lobsters infected with the Epizootic Shell Disease
* Used next-generation sequencing techniques to study the micro biome
* Constructed phylogenetic trees based on data using different programs such as RDP11, macQIIME, and Usearch

**Jun-Jul 2016 Field Course Studying Research Course at University of Virginia**

* Spent 5 days a week capturing and handling freshwater fish from rivers in Virginia, Kentucky, Ohio and Tennessee
* Researched breeding methods and identification of fish species by physical characters.
* Techniques: seining, trawling, and backpack and boat electrofishing

**Jan 2014 – Dec 2014 Marine Biology Researcher, Virginia Institute of Marine Science, Fisheries Dept**

* Researched and analyzed information about fish diets collected from a cruise ship to determine predator-prey relationships
* Individual project on the inshore Lizard Fish Trophodynamics
* Techniques: Computer modeling, Dissections

**May 2013 Field Course, Eastern Shores Laboratory**

* Field study on marine science research
* Utilized scientific methods and techniques to sample marine organisms and threats to climate, nutrient enrichment, land-use, and overall stability of coastal ecosystems. Conducted geological and wildlife analysis of Eastern Shore Islands, building a carbon budget to determine composition of a salt marsh
* Techniques: datasondes, geophysical seismic profilers, mapping systems, and wave/current measuring devices, as well as trawl and seine techniques to gather marine organisms for analysis

**Aug 2012 – May 2014 Research Assistant, Virginia Institute of Marine Science**

* Researched and predicted the effects of global warming on the Ross Sea
* Recorded data to analyze phytoplankton concentrations in the sea
* Identified species of phytoplankton and created data sets to represent population at different depths
* Techniques: Consistently used microscope imaging and capturing, settled and counted phytoplankton samples collected

**Aug 2011 – May 2012 Phage Lab Freshman Research**

* Collected viral samples around the William & Mary campus in order to research phages that may be useful in cancer research
* Lab techniques: Purification and collection of DNA to be analyzed
* Modeling Techniques: DNA Masters to annotate the phage Little Cherry’s Gene

**July 2011 – July 2011 Preparing for Life as a University Student - Science at W&M**

* Worked under the supervision of an upperclassman to study Heliobacter pylori
* Tested for metal resistance.
* General microbiology lab techniques: Plating, gel electrophoresis

**AWARDS/Presentations:**

* Virginia Academy of Science 2018 presentation at Longwood University

**Professional Affiliations/Extracurricular Activities**

* Treasurer of the Marine Science Society
* Biology Club
* Mosaic House – International Student Association

**COMPUTER SKILLS**

Proficiency

* Operating Systems: Windows, Mac Programming/Coding: Perl Scripting
* Database & Spreadsheet: Microsoft
* Graphics &Presentation: PowerPoint, Galaxy Hub tools, R

**Laboratory Skills:**

* Microbiological Techniques: PCR, Next Gen Sequencing, Fingerprinting, DNA extraction, Western Blotting, Gel Electrophoresis
* Marine life gathering and identification: Seining, electrofishing, dissections, Tagging, Column Settling Separation
* Modeling: Usearch, Uparse, LefSE, Phylogentic Trees, MacQIIME

**Languages**

* English (Native)
* Japanese( Spoken Language)
* French (Reading and Spoken Language)

**Certificates/Training**

* CPR and First Aid Training
* Blood-borne Pathogens Training

**Community Involvement/Activities**

* OXFAM Hunger Banquet
* Cancer Walk in PWC
* Blanket Drive in PWC
* Book Drive PWC
* Canvassing for the Obama Campaign Support
* Violinist at Youth Religious Band

Professional References

* Patrick Gillevet : Professor at George Mason University and Director of the MicroBiome Analysis Center
  + (Email: pgilleve@gmu.edu)
* Walker O. Smith: Professor of Marine Science at the Virginia Institute of Marine Science
  + (Email: wos@vims.edu)