

# Phong L. Nguyen

CURRICULUM VITAE

May 2021

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## EDUCATION

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- 2021 **MBA, Decision Sciences and Product Management (3.6 GPA)**  
Duke University – Durham, NC
- 2013 **M.Sc. Natural Resources: Fisheries Sciences (3.96 GPA)**  
University of Georgia – Athens, GA  
*Thesis: Effects of Fin Ray Removal on White Sturgeon (*Acipenser transmontanus*) and Siberian Sturgeon (*Acipenser baerii*) Health and Swimming Performance*
- 2011 **B.S. Natural Resources: Fish and Wildlife Biology (3.50 GPA)**  
University of Georgia – Athens, GA  
*Senior Thesis: Relationship Between Adult Habitat Requirements and Distribution of Larval Two-lined Salamanders (*Eurycea guttolineata*)*

## RELEVANT EMPLOYMENT HISTORY

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- 2021—PRESENT **Product Manager**, Dell Technologies
- 2018—2020 **Founder/Owner**, PhishBizz Consulting LLC.
- 2015—2019 **Research Scientist**, Smith-Root, Inc.
- 2014—2015 **Fisheries Biological Scientist II**, Florida Fish and Wildlife Research Institute, Florida Fish and Wildlife Conservation Commission
- 2012—2013 **Graduate Research Assistant**, Warnell School of Forestry and Natural Resources, University of Georgia
- 2012—2013 **Research Technician**, Warnell School of Forestry and Natural Resources, University of Georgia
- 2009—2010 **Research Technician**, Phillips Plant Lab & Deer Research Facility, University of Georgia

## RESEARCH FOCUS

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Developing, optimizing, and evaluating cutting-edge technologies for application in fisheries conservation, aquatic sciences, and aquaculture. More specifically, my research background encompasses many aspects of fisheries population dynamics, biology, and physiology. I am particularly interested in: 1) the applications of electro-immobilization technologies for fish handling and capture, and 2) the use of environmental DNA technologies for rapid detection and quantification of aquatic organisms.

- Thomas, A, S. Tank, **P.L. Nguyen**, J. Ponce, M. Sinnesael, and C.S. Goldberg. 2019. A system for rapid eDNA detection of aquatic invasive species. *Environmental DNA*, <https://doi.org/10.1002/edn3.25>
- Thomas, A., **P. L. Nguyen**, J. Howard, and C.S. Goldberg. 2019. A self-preserving, partially biodegradable eDNA filter. *Methods in Ecology and Evolution*, <https://doi.org/10.1111/2041-210X.13212>
- Nguyen, P.L.**, B.A. Yefimov, A.B. Coffin, and C.D. Cooper. 2019. Electro-immobilization as an alternative method to chemical immobilization of larval zebrafish. *Transactions of the American Fisheries Society*. <https://doi.org/10.1002/tafs.10167>
- Nguyen, P.L.**, P.S. Sudheesh, M. Sinnesael, A. Thomas, K. Haman, K. Cain. 2018. Rapid detection and monitoring of *Flavobacterium psychrophilum* in water by using a handheld field-portable qPCR system. *Journal of Aquatic Animal Health*, <https://doi.org/10.1002/aah.10046>
- Thomas, A.C., J. Howard, **P.L. Nguyen**, T.A. Seimon, and C.S. Goldberg. 2018. ANDe™: A fully-integrated environmental DNA sampling system. *Methods in Ecology and Evolution*, <https://doi.org/10.1111/2041-210X.12994>.
- Nguyen, P.L.**, K. Haman, L. Carstenson, T. McKlveen, and S. Gibson. 2017. Evaluation of Three Electrical Outputs in an Electro-Immobilization System to Reduce Induction Time During Routine Handling of Fish at a Hatchery. *North American Journal of Aquaculture*. <https://doi-org.ezproxy.library.ubc.ca/10.1002/naaq.10023>.
- Alfermann, T.J., P.A. Strickland, E. Leone, C.R. Middaugh, and **P.L. Nguyen**. 2017. Comparison of fish catch between an electric seine and backpack electrofishers in shoal habitat of the Chipola River, Florida. *Journal of Fish and Wildlife Management*, 9:36-44.
- Nguyen, P.L.**, Z. Jackson, and D. Peterson. 2017. Effects of pectoral fin ray removal on the Siberian sturgeon *Acipenser baerii* swimming performance. *Fisheries Science*, doi:10.1007/s12562-017-1115-z.
- Middaugh, C.R., T. Alfermann, P.A. Strickland, and **P.L. Nguyen**. 2016. A regional evaluation of largemouth bass and Suwannee bass exploitation in Northern Florida. *North American Journal of Fisheries Management* 36:958-963.
- Nguyen, P.L.**, Z. Jackson, and D. Peterson. 2015. Comparison of fin ray sampling methods on white sturgeon *Acipenser transmontanus* growth and swimming performance. *Journal of Fish Biology*, 88:655-667.
- Gross, J., B. Farokhish, M. Cornacione, S. Shaw, **P.L. Nguyen**, and T.B. Henry. 2015. Potential use of direct current electric fields to eradicate Rainbow Trout *Oncorhynchus mykiss* embryos from freshwater ecosystems. *North American Journal of Fisheries Management*, 35:871-879.

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## TECHNICAL REPORTS

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**Nguyen, P.L.**, K. Haman, L. Carstensen, T. McKlveen, and S. Gibson. 2017. Optimizing electro-immobilization settings on the EA-1000B to improve fish welfare. Project #IA-809-00, Technical report for Smith-Root R&D Board.

Burger, C., **P. Nguyen**, L. Carstensen, M. O'Farrell, and P. Cooney. 2016. Threshold effects of electric voltage gradients on fish: a literature review for a proposed cathodic protection system for the Van Arsdale fish screen project. Technical Report to PG&E.

**Nguyen, P.L.** 2013. Exploitation of Largemouth Bass in northwest Florida Lakes. Annual Report, Florida Fish and Wildlife Research Institute, Florida Fish and Wildlife Conservation Commission. St. Petersburg, FL.

**Nguyen, P.L.** 2013. Exploitation of Largemouth Bass and Suwannee Bass in northwest Florida rivers. Annual Report, Florida Fish and Wildlife Research Institute, Florida Fish and Wildlife Conservation Commission. St. Petersburg, FL.

Strickland, A., and **P.L. Nguyen**. 2013. Long-term Monitoring of Lake Jackson. Annual Report. Florida Fish and Wildlife Research Institute, Florida Fish and Wildlife Conservation Commission. St. Petersburg, FL.

Strickland, A., and **P.L. Nguyen**. 2013. Long-term Monitoring of Lake Talquin. Annual Report. Florida Fish and Wildlife Research Institute, Florida Fish and Wildlife Conservation Commission. St. Petersburg, FL.

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## INVITED PRESENTATIONS

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**Nguyen, P.L.** and A. Thomas. 2018. Field-based eDNA Sampling and Detection Systems with Application in Aquaculture. Salmon/Trout Spawning and Biosecurity Workshop. Pendleton, OR.

**Nguyen, P.L.** and A. Thomas. 2018. Applications for Environmental DNA (eDNA) Analysis. PSU Site Evaluation and Assessment Course. Portland, OR.

**Nguyen, P.L.** and A. Thomas. 2018. Principles of Environmental DNA and Related Technologies. Pacific Northwest Environmental STEM Institute. Portland, OR.

Thomas, A., K. Haman, M.F. Chacon-Heszele, M. Sinnaesael, **P. Nguyen**, and B. Quinton. 2016. Field detection of pathogens (*Renibacterium salmoninarum*) using a handheld qPCR system. Northwest Fish Culture Conference. Centralia, WA.

**Nguyen, P.L.** and P. Cooney. 2015. Uses of underwater remotely operated vehicles in fisheries and aquatic sciences: Potential and limitations. 5<sup>th</sup> Field technology for Data Collection in Forestry, Fisheries, and Natural Resources. Portland, OR.

**Nguyen, P.L.** 2015. Humane fish slaughter: What are the guidelines, and what technologies are being used? Mount Hood Community College.

**Nguyen, P.L.** 2014. Overview of Two Current FWC Fisheries Studies. Tallahassee Bass Angler Association. Tallahassee, FL.

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## CONTRIBUTED ORAL PRESENTATIONS

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Sinnesael, M., **P.L. Nguyen**, C.S. Goldberg, A.C. Thomas. 2019. Solving pressing eDNA challenges with field-friendly eDNA extraction and detection methods and solutions. SETAC North America 2019. Toronto, Ontario.

**Nguyen, P.L.** and A. Thomas. 2019. A complete end-to-end field eDNA sampling solution. Southern Division American Fisheries Society Conference. Galveston, TX.

**Nguyen, P.L.** and A. Thomas. 2018. Field-Based eDNA Sampling and Detection Systems with Application in Aquaculture. Northwest Fish Culture Conference. Portland, OR.

**Nguyen, P.L.**, B.A. Yefimov, A.B. Coffin, and C.D. Cooper. 2018. Electro-immobilization as an alternative method to chemical immobilization of larval zebrafish. National American Fisheries Society Conference. Atlantic City, NJ.

Thomas, A., J. Howard, **P.L. Nguyen**, T. Seimon, and C. Goldberg. 2018. eDNA Filtration Dynamics: Evaluating the effects of pressure, flow rate, and pore size on DNA capture. National American Fisheries Society Conference. Atlantic City, NJ.

**Nguyen, P. L.**, S. Ponnerassery, M. Sinnesael, A. Thomas, K. Haman, and K. Cain. 2017. Field detection of environmental bacteria in aquaculture using a handheld qPCR system. National American Fisheries Society Conference. Tampa, FL.

Thomas, A., K. Haman, M.F. Chacon-Heszele, M. Sinnaesael, **P. Nguyen**, and B. Quinton. 2017. Field detection of pathogens (*Renibacterium salmoninarum*) using a handheld qPCR system. Western Fish Health Workshop. Suquamish, WA.

**Nguyen, P. L.**, K. Haman, L. Carstensen, T. McKlveen, and S. Gibson. 2017. Optimizing electro-immobilization settings in the EA-1000B to improve fish welfare. Aquaculture America. San Antonio, TX.

Thomas, A., K. Haman, M.F. Chacon-Heszele, M. Sinnaesael, **P. Nguyen**, and B. Quinton. 2017. Field detection of pathogens (*Renibacterium salmoninarum*) using a handheld qPCR system. Alaska Fish Culture Conference. Sitka, AK.

**Nguyen, P. L.**, K. Haman, L. Carstensen, T. McKlveen, and S. Gibson. 2016. Optimizing electro-immobilization settings improve fish welfare. Northwest Fish Culture Conference. Centralia, WA.

**Nguyen, P.L.** 2016. Humane Fish Slaughter: A comparison of farmed fish welfare standards in the United States and the United Kingdom. National American Fisheries Society Conference. Kansas City, MO.

**Nguyen, P.L.** 2016. Humane Fish Slaughter: A comparison of farmed fish welfare standards in the United States and the United Kingdom. Western Division American Fisheries Society Conference. Reno, NV.

**Nguyen, P.L.**, J. Tipping, and K. Haman. 2015. Humane fish slaughter: A comparison of animal welfare standards in the United States and the United Kingdom. What is the next step? 66<sup>th</sup> Annual Northwest Fish Culture Concepts. Portland, OR.

Strickland, A., C. Middaugh, T. Alfermann, and **P.L. Nguyen**. 2014. Estimating Largemouth Bass Exploitation Rate Across Northwest Florida Lakes and Rivers Using High Reward Tags. Southeastern American Fisheries Society Conference. Altoona, FL.

**Nguyen, P.L.** and D. Peterson. 2013. Effects of Fin Ray Removal on the Swimming Performance of White Sturgeon. National American Fisheries Society Conference. Little Rock, AR.

Bednarski, M., **P.L. Nguyen**, and D. Peterson. 2013. Abundance and Size Structure of Shortnose Sturgeon in the Altamaha River, GA. 7<sup>th</sup> International Sturgeon Symposium. Vancouver, Canada.

**Nguyen, P.L** and D. Peterson. 2013. Effects of Fin Ray Removal on the Swimming Performance of White Sturgeon. 7<sup>th</sup> International Sturgeon Symposium. Vancouver, Canada.

**Nguyen, P.L.**, Z. Jackson, and D. Peterson. 2013. Effects of Fin Ray Removal on the Swimming Performance of White Sturgeon. USWFS Interagency Ecological Program Annual Workshop. Sacramento, CA.

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## GRANTS AND FUNDING

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Jackson, G., **P.L Nguyen**, and A. Stewart-Malone. 2015. Use of UV Radiation Technology to Prevent Settlement of Quagga Mussel Larvae, Project #344. Funding Source: Bonneville Power Administration Technology Innovation Grant. \$611,254.78 USD (24 months).

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## TEACHING EXPERIENCE—COURSES AND WORKSHOPS TAUGHT

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Workshop: *Applications for Environmental DNA (eDNA) Analysis* (Part of the Portland State University Site Evaluation and Assessment Certification Course): 6/12/2018  
Attendees: NOAA Fisheries, Oregon Department of Transportation, Oregon Department of Fish and Wildlife, Yakima Tribal Fisheries, Private Consulting Firms

Workshop: *Introduction to Electrofishing Principles and Safety Course* 4/10/2018-4/11/2018  
Attendees: Bellingham Technical College

Workshop: *Introduction to Electrofishing Principles and Safety Course* 1/31/2017 –2/2/2017  
Attendees: California Department of Water Resources

Workshop: *Introduction to Electrofishing Principles and Safety Course*: 6/27/2016 – 6/28/2016  
Attendees: Pennsylvania Regional Science Consortium, Pennsylvania Sea Grant, Pennsylvania Department of Environmental Protection, Gannon University

Workshop: *Introduction to Electrofishing Principles and Safety Course*: 12/13/2016 – 12/14/2016  
Attendees: Miccosukee Indian Tribe, Florida

Lab Course: *Environmental Biology of Fishes* (FISH 6300L): Spring 2013  
Warnell School of Forestry and Natural Resources, University of Georgia

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## ACADEMIC MEMBERSHIPS AND PROFESSIONAL INVOLVEMENT

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2019—PRESENT Section Cabinet Member, Fuqua School of Business  
2019—PRESENT Fuqua2Duke Mentor, Fuqua School of Business and Duke University  
2019—PRESENT Executive Member of the Blue Cup Cabinet, Fuqua School of Business  
2019—PRESENT Executive Member of Marketing Cabinet, Fuqua School of Business  
2015— PRESENT Member, Washington-B.C. Chapter of the American Fisheries Society  
2013— PRESENT Member, National American Fisheries Society, Professional Member  
2016—2019 Mentor: Undergraduate research opportunity, Washington State University  
2015—2019 Mentor: American Fisheries Society Young Professional Mentorship

2016	Symposium Organizer and Chair: Practical Applications of Innovative Fisheries Technology. Western Division American Fisheries Society Conference. Reno, NV. March 2016
2011—2012	Georgia State Chapter of the American Fisheries Society
2011—2012	University of Georgia Chapter of the American Fisheries Society
2010—2011	Student Ambassador, Warnell School of Forestry and Natural Resources
2011	University of Georgia Chapter of the Wildlife Society
2010	Xi Sigma Pi National Forestry Honor Society
2007—2013	University of Georgia Water Polo Team

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## HONORS, AWARDS, AND CERTIFICATIONS

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2019	<b>Fuqua School of Business</b> , Merit-based Scholarship Award, MBA Program
2018	<b>Certified Fisheries Professional</b> , American Fisheries Society
2018	<b>Course Certification</b> , Coursera (via Duke University): Inferential Statistics, Intro to Probability and Data, Linear Regression and Modeling
2018	<b>Statement of Accomplishment</b> , Data Camp, Intro and Intermediate Program R Course
2015	<b>Certified Associate Fisheries Professional</b> , American Fisheries Society
2014	<b>Certificate of Accomplishment</b> , Writing in Sciences, Stanford University of Medicine
2013	<b>Outstanding Student in Sturgeon Research Student Travel Award</b> , North American Sturgeon and Paddlefish Society
2013	<b>Best Graduate Student Presentation</b> , 2 <sup>nd</sup> place, California-Nevada Chapter of the American Fisheries Society
2013	<b>Best Student Presentation</b> , 1 <sup>st</sup> place, Warnell School of Forestry and Natural Resources Graduate Student Symposium
2013	<b>Best Graduate Student Paper</b> , 2 <sup>nd</sup> place, Georgia Chapter of the American Fisheries Society
2009—2011	<b>Scholastic Athlete Award</b> , College Water Polo Association
2009—2011	<b>Dean's List</b> , University of Georgia
2007—2011	<b>Pell Grant Recipient</b> , University of Georgia
2007—2011	<b>HOPE Full Scholarship Recipient</b> , University of Georgia

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## OTHER LEADERSHIP EXPERIENCES

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2018—2019	<b>Vice President</b> , University of Georgia Portland, OR Alumni Chapter
2016	<b>Mentor</b> , Alumni Compass Project: Mentor-a-Student Warnell School of Forestry and Natural Resources
2013—2014	<b>Head Coach</b> , University of Georgia Club Water Polo Team
2010—2012	<b>Assistant Summer League Coach</b> , Meadowtrace Stingray Swim Team
2008—2012	<b>Assistant Coach</b> , Collins Hill High School Water Polo Team

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## COMMUNITY INVOLVEMENT

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2019	Volunteer for Habitat for Humanity, Durham, North Carolina
2018	Volunteer Referee for Oregon High School Water Polo
2015—2017	Volunteer Instructor for KlineKids Fishing Event, Vancouver, WA
2015	Oregon/Washington PAWS (Photographer), Portland, OR
2010—2011	Habitat for Humanity (Home restoration/cleanup), Athens, GA
2009—2010	American Cancer Society (Event volunteer), Athens, GA