Nguyen Tien Anh Quach

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EDUCATION

M.S., *in progress,* Biology - Towson University, Towson, Maryland – GPA: 3.96/4.00
Thesis title: Assessing Effects of Climate Change and Urbanization on a Trout Stream: A Long-term Data Analysis
Advisor: Dr. Susan E. Gresens
B.S., *summa cum laude,* Environmental Science - Troy University, Troy, Alabama - GPA: 3.87/4.00

HONORS/AWARDS

Towson University Graduate Student Association Grants – 2021; 2022
Fisher College of Science and Mathematics Travel Grant - 2022
Teaching Assistantship (tuition & stipend) – 2020-present
Chancellor's Scholarship (Troy University – full tuition) – 2016-2020

PROFESSIONAL MEMBERSHIPS

Society for Freshwater Science – 2021-present
Beta Beta Beta (Tri-Beta) - National Biology Honor Society Mu Epsilon Chapter – 2019-2020
Association of Southeastern Biologists – 2019-2020

PUBLICATIONS

• Miller, J. M., Patel, M. K., **Quach, N. T. A**, Guillaumet, A., 2021. Survivability of Mussels, Targeting Federally Listed Species, Over a 13-week Period During the Drawdown of Gantt Reservoir. A Report to Power South Energy Cooperative and U.S. Fish and Wildlife Service as part of the Gantt Reservoir Drawdown Project Agreement (USFWS Project No. 2016-F-0576).

PRESENTATIONS

• **Quach, N. T. A.**, Gresens, S. E., 2022. Can a Maryland Piedmont Trout Stream Be Protected from Rapid Urban Development? The Long-Term View. Presented virtually at the 2022 Joint Aquatic Sciences Meeting, May 14th – 20th. Grand Rapids, MI.
• **Quach, N. T. A.**, Miller, J. M., Guillaumet, A., Patel, M. K., 2020. Tracking Movement of a Federally Threatened Species of Mussel During the Drawdown of Gantt Reservoir. To be presented at the 81st Annual Meeting of Association of Southeastern Biologists, March 25th – 28th. Jacksonville, FL. *Cancelled due to COVID-19*.
• **Quach, N. T. A.**, Miller, J. M., Guillaumet, A., Patel, M. K., 2020. Tracking Movement of a Federally Threatened Species of Mussel During the Drawdown of Gantt Reservoir. Presented at Alabama Mollusk & Crayfish Working Group Meeting, January 15th – 16th. Cullman, AL.
• **Quach, N. T. A.,** Moore, A. T., Davis, E. C., Temple, T. N., Miller, J. M., 2019. Preliminary Investigations of Refuges as a Method to Capture Riverine Crayfish. Presented at the 80th Annual Meeting of Association of Southeastern Biologists, April 3rd – 6th. Memphis, TN.

RESEARCH/WORK EXPERIENCE

• **Graduate Student Researcher** - ***Assessing effects of climate change and urbanization on a trout stream: A long-term data analysis*** (4/2021 – present) **–** Thesis Advisor: Dr. Susan E. Gresens
• **Undergraduate Research Assistant** - ***Survivability of Mussels, Targeting Federally Listed Species, During the Drawdown of Gantt Lake Reservoir*** (9/2019 – 5/2020) - Principal Investigator: Mr. Jonathan M. Miller
• **Field Technician Intern** (5/2019 – 12/2019) - Sanders Lead Co. - Supervisor: Mr. Chris Rutherford & Mr. Matt Brown
• **Undergraduate Student Researcher** (10/2018 – 5/2020) - ***NSF RAPID*** - ***Rapid response to drought in a biodiversity hotspot*** - Principal Investigator: Dr. Brian Helms
• **Undergraduate Student Researcher** (9/2018 - 5/2019) - ***Preliminary Investigations of Refuges as a Method to Capture Riverine Crayfish*** **-** Principal Investigator: Mr. Jonathan M. Miller

RELEVANT COURSEWORK

Graduate: Data Analysis and Interpretation for Biologist; Global Change; Ecosystem Ecology; GIS Applications; Community Analysis and Bioassessment; Hydrogeology (*to be taken*)
Undergraduate: Environmental Assessment (Aquatic Biomonitoring); Survey of Environmental Science; Statistics (junior and senior level); Organismal Biology; Environmental Pollution Control; Organic Chemistry; Biostatistics; Limnology

SKILLS & ABILITIES

• R and RStudio - edX Verified Certificate for Data Wrangling and Visualization; HTML5 and CSS
• GIS – Intermediate level
• Collection of fish, crayfish, and benthic macroinvertebrates using backpack shocker and D-nets
• Taxonomy of freshwater fishes of southeast Alabama and freshwater benthic macroinvertebrate of Piedmont region, Maryland
• Stream health and habitat assessments using fish and benthic macroinvertebrate assemblages, IBI, and RBP (EPA)
• Experienced with soil and water quality field instruments (Hydrolab, pH meter, YSI, etc.)