

Nguyen Tien Anh Quach

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Address: 1317 Taylor Ave, Parkville, MD 21234

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. A Comparison of Benthic Communities and Water Quality in Red Run Watershed Over Two Decades of Urban Development. Presented at the Baltimore Ecosystem Study 24th Annual Meeting, October 13th – 14th. Baltimore, MD.
- **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

SKILLS & ABILITIES

- **R and RStudio** - edX Verified Certificate for Data Wrangling and Visualization; HTML5 and CSS
- **GIS** – Intermediate level / **PC-ORD** version 7.09
- 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.)