

Nicholas A. Zotos

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EDUCATION

Duquesne University - Duquesne Honors College Resident - Pittsburgh, PA

Bayer School of Science and Engineering

Anticipated, May 2025

- *Major:* Bachelor of Sciences in Biological Sciences
 - *Minors:* Biochemistry, English, Intercultural Engagement
- Cumulative GPA: 3.97
- Math and Science GPA: 3.96
- University Recognitions
 - Dean's List (all semesters)
- Scholarships
 - Duquesne University - Horizon Academic Scholarship
 - George N. Boulukos - Eastern Orthodox Academic Scholarship
 - New Jersey Golf Association – Merit Academic Scholarship

RESEARCH EXPERIENCE

Duquesne University - Dr. David Lampe - Pittsburgh, PA

Undergraduate Student Researcher (Academic Course Credit)

October 2021 - Present

- Research Topic/Question: Paratransgenesis as a vector control method for Malaria. (*Facilitating the use of gene editing technology via microbiome manipulation to eradicate plasmodium*).
 - Laboratory Responsibilities
 - General maintenance of experimental organisms (*Anopheles Mosquitoes*).
 - Assist in the manipulation of bacterial components in experimental vector.
 - Lead secondary projects exploring the increased production of auxotrophic gene-edited plasmids that carry anti-plasmodium gene regulators. (*Creating an efficient Paratransgenic system*)
 - Competitive summer undergraduate research internship (URP) *Summer 2023*
 - 10-week competitive research internship
 - Corresponded with PhD candidates while conducting primary research project
 - Explored anti-plasmodium symbiosis and novel vector control methods to reduce the spread of Malaria
- 2 years of research experience

RESEARCH EXPERIENCE (Publications and Poster Presentations)

Duquesne Undergraduate Biology Research – Pittsburgh, PA

- Poster Presentations
 - Duquesne URP 2023 – “Upstream, Downstream, and everything in between....”

CLINICAL EXPERIENCE

Allegheny Health Network (AHN), Allegheny General Hospital, Pittsburgh, P.A

Hospital Elder Life Program (HELP) – Volunteer

January 18, 2023 – Present

- Program to improve hospital experience for older patients
 - Patient interaction and contact to prevent the onset of dementia and delirium
 - Assist RN's and CNA's with patient feeding and comfort care
 - Continued training in geriatric dementia care
- Total clinical hours procured through AHN: 75 Hours

PHYSICIAN SHADOWING

Allegheny General Hospital (AHN), Pennsylvania – (Complex Medical Care Unit), Dr. Mary Beth Roberts

June 12th – June 16th, 2023

- Shadowing D.O. – Internist/Hospitalist – 16 Hours

Catholic Health Institute (CHI), Tennessee – (Emergency Room), Dr. Craig S. Swafford, Dr. Lebron Lackey

Dec. 21st, 2022

- Shadowing M.D. – General Surgeon – 7 Hours

Dec. 22nd, 2022

- Shadowing M.D. – Radiologist – 5 Hours

Catholic Health Institute (CHI), Tennessee – (Department of Surgery) Dr. Robert Headrick

Dec. 13th – Dec. 16th, 2022

- Shadowing M.D. – Chief of Thoracic Surgery – 16 Hours

Dec. 19th – Dec 20th, 2022

- Shadowing M.D. – Chief of Thoracic Surgery – 6 Hours

Hackensack Meridian Health Medical Group, New Jersey – (Cardio-Medical Center) Dr. Valarie Kleshchelskaya

July 17 – July 29, 2022

- Shadowing M.D. – Internist/Hospitalist – 27 Hours

Total physician shadowing Hours: 76 Hours

MEMBERSHIP, LEADERSHIP & COMMUNITY INVOLVEMENT

Duquesne University - Pittsburgh, PA

Duquesne on-campus university affiliated scientific journal – The D.U. Quark

January 2023 – Present

- Staff Writer
 - Write monthly scientific journal entrees for on-campus STEM community
 - Coordinate with executive positions on relative scientific communication strategies

Duquesne Department of Student Life - Duquesne university orientation

August 2022 – Present

- Team Leader
 - Assist incoming freshmen moving in on campus
 - Serve as a mentor for younger individuals during their first week of collegiate life

Duquesne on-campus university affiliated newspaper – The Duquesne Duke

September 2021 – Present

- Advertisement Manager:
 - Work with Editor and Chief in managing staff writers and weekly publishing operations
 - Oversee prospective salaries and budgetary reviews for the University Newspaper
 - Cooperate with small and large businesses to advertise through publications (*PNC, UPMC, Moonlight Burger, Milano's Pizza, DU Cares, Pennsylvania State Department, etc...*)

University of Pittsburgh - Pittsburgh, PA

January 2023 – Present

University of Pittsburgh - Young Life

- Member
 - Assist in local community service initiatives
 - Create care packages for homeless
 - Provide outlet for Christian dialogue pertaining to collegiate individuals

American Legion – Clark, NJ

Boy Scouts of America – Troop 145

January 2016 – January 2020

- Eagle Scout
- Congressional Award for Service, NJ 7th district

OTHER EMPLOYMENT

Duquesne University - Pittsburgh, PA

Duquesne University Athletic Department, Academic correspondence

February 2023 – Present

- Tutor
 - Tutor undergraduate NCAA Division 1 student athletes in calculus, chemistry, and biology.
 - Plan each session based on the student's style of learning
 - Provide student with study tips and techniques
 - Develop alternative ways for students to learn and make each session productive

CERTIFICATIONS, TRAINING, AND SKILLS

Duquesne University – Pittsburgh, PA

Pre-Medical and Health Professions Program (PMHPP)

January 2022

- Program Certifications
 - PMHPP Academic Undergraduate Certification
 - HIPAA Training

Coursera - Online Professional Certifications

- Yale
 - Connected Leadership
 - Introduction to Medical Research
- Stanford
 - Writing in the Sciences
 - Introduction to Food & Nutrition