

MARHARYTA KRYLOVA

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I am a Duke University (class of 2026) student, majoring in Neuroscience, and minoring in Chemistry and Russian, who is also a certified Phlebotomist and Laboratory Technician. I'm a goal-oriented, determined, and creative individual who is deeply passionate about research and addressing underrepresentation in medicine. My commitment to learning and community service drives my active involvement in health environments. Having emigrated from Ukraine in 2018, I bring global perspectives to my professional and community interactions.



EDUCATION

Olympia High School — Orlando, FL

May 2018 - May 2022

General Education Degree; PLTW Biomedical Program

GPA: 3.977/4.0 & 5.326/5.0

- **Coursework:** Principles of Biomedical Science, Human Body Systems, Medical Interventions, Biomedical Innovations

Valencia College — Orlando, FL

Feb 2020 - May 2022

Associates of Arts

GPA: 4.0; President's List

- **Coursework:** Human Anatomy and Physiology I

Duke University — Durham, NC

Aug 2022 - May 2026

Bachelor of Science in Neuroscience; Minors in Chemistry & Russian; Pre-Health

GPA: 3.630/4.0

- **Coursework:** Leadership in Healthcare, Medical Ethics, Aging, & End of Life Care in the US

Northwest Phlebotomy School — Orlando, FL

Oct 2023

Phlebotomy Technician Certification

Completed/Passed

- Conducted over 100 successful blood draws, showcasing precision and adherence to venipuncture best practices
- Medical terminology for effective healthcare communication

CERTIFICATIONS

National Certified Phlebotomy Technician

National Registry of Allied Health Professionals

- Credential ID: [NPCN-16961-6068](#)
(Exp: 10/2025)

Aesthetics Accreditations International

Infection Control and Prevention

- Credential ID: [4604818354611656702](#)

Biotility

Biotechnician Assistant Credential

- Credential ID: [32648389](#)

American Red Cross

Adult CPR/AED

- Credential ID: [0181956](#) (Exp: 06/2025)

International Humanitarian Law Advocate

- IHL [Certificate](#)

WORK EXPERIENCE

Duke University

Mar 2023 - Present

Duke Presidential Ambassador; Recruitment Committee Member

5-10 hrs/month

- Leading high-profile campus tours for distinguished guests
- Staffing university events and formal functions, ensuring a seamless and welcoming experience for attendees
- Engaging in leadership workshops and discussions with university administration to enhance leadership skills
- Acting as a representative of the student body, fostering a strong connection with the Office of Alumni Relations to strengthen Duke's community bonds
- 3rd most hours award: 19.5 hrs (Fall 2023)

Florida State University**Jun 2023 - Aug 2023***Young Scholars Program Head Counselor**40+ hrs/week*

- Mentoring students and offering ongoing comprehensive tutoring in Biology and Research coursework
- Managing after-class programming, planning and setting up related activities and weekend trips
- Collaborating with professors/TAs to ensure ongoing student success in the program

Gary Munson Heating & A/C**May 2022 - Aug 2023***Dispatch Coordinator & Accounts Receivable**32-40 hrs/week*

- Optimizing operational efficiency by developing procedural flow charts for technicians, streamlining service, payment collection, and conflict resolution processes
- Efficient dispatch coordination for ~15 technicians, managing accounts receivable, and serving as a bridge between field technicians and the office team, ensuring seamless communication and fostering a high level of customer satisfaction

ON-CAMPUS INVOLVEMENT

Adopt A Grandparent (AAG)**Aug 2023 - Present***Co-Founder & Co-Chair of Croasdaile-Connected Hearts (CCH) & Education Committees*

- Organizing events within Croasdaile Retirement Community (group events and 1-on-1 interactions with residents)
- Providing support in memory care for those affected by dementia, showcasing empathy and compassion
- Playing a pivotal role in expanding AAG to Pettigrew Rehabilitation Center, extending the impact of the organization

First-Year Experiential Orientation**Aug 2023***Orientation Leader, Project Research*

- Fostering a tight-knit community among first-year students by providing valuable resources and support
- Promoting the academic and personal growth of incoming freshmen, contributing to their successful integration into university life

TEDxDuke**Aug 2022 - Present***Member, Sponsorship Committee (Aug 2022 - May 2022);**Chair, Sponsorship Committee (Aug 2023 - Present)*

- Managing club finances (funding submissions, contracts, reimbursements, and budget-conscious purchases)
- Cultivating strong relationships with community sponsors and overseeing the sponsorship committee (5 students)
- Participating in speaker selection processes (interviewing potential speakers and deliberating to finalize speakers)

Peer Advocacy for Sexual Health (PASH)**Aug 2022 - Present***Member, Marketing Committee (Aug 2022 - May 2022);**Chair, Fundraising Committee (Aug 2023 - Present)*

- Organizing a community 5K event to raise both funds and awareness for sexual health
- Combining my passion for healthcare with advocacy, promoting sexual health awareness within Duke and Durham

Remote Area Medical (RAM)**Aug 2022 - Present***General Member (Aug 2022 - May 2022);**Volunteer, Travel Clinics (Aug 2023 - Present)*

- Driving club members to clinics in NC and TN, setting up pre-clinic cleaning up post-clinic, checking patients in
- Contributing to aiding patients with no insurance/from lower socioeconomic backgrounds, addressing healthcare disparities
- Gaining hands-on experience patient interactions while shadowing medical professionals

American Medical Women's Association (AMWA)

Aug 2022 - Present

General Member (Aug 2022 - May 2022);

Medical Resources Committee (Aug 2023 - Present)

- Participating in seminars and discussions to expand knowledge and network within the medical field
- Cultivating a strong understanding of healthcare issues, women's health advocacy, and medical leadership
- Facilitating access to medical resources for pre-medical students within the organization

Science Olympiad

Aug 2022 - Present

Test Writer & Proctor

- WIDI Division C Event: Involved in test writing, event proctoring and grading, ensuring the smooth execution and fairness of competitions

Neuroscience Book Club

Aug 2023 - Present

Member

- Engaging in discussions about *Are We Smart Enough to Know How Smart Animals Are?* by Frans de Waal
- Analyzing and exploring complex topics within neuroscience, enhancing my knowledge in the field

Biology & Neuroscience Major Unions

Aug 2022 - Present

General Member

- Participating in relevant events, seminars, and discussions to deepen my understanding of the fields of biology and neuroscience through collaborating with peers and professors

RESEARCH

Duke University Health System

Dec 2023 - Present

Undergraduate Student Researcher, Hauck Lab DukeHealth Neurosurgery

- Clinical Research
- Independently working on a project covering spontaneous and traumatic intraorbital arteriovenous fistula, a rare entity with under 30 cases reported worldwide from 1974 to 2023

The Preston Robert Tisch Brain Tumor Center at Duke

Oct 2022 - Present

Undergraduate Student Researcher, Waitkus Lab Duke Health Neurosurgery ([Proposal](#), [Abstract](#))

- Basic Science Research
- Independent Study: "Targeting DNA Replication Stress in Glioblastoma Cells that Utilize the Alternative Lengthening of Telomeres Mechanism"

Duke University Trinity College

Jan 2022 - May 2022

Undergraduate Student, Writing Course ([Abstract](#))

- "Rita Levi-Montalcini & the 7 Success Factors"
- Investigated the influential factors contributing to the success of renowned neurologist Rita Levi-Montalcini, with a focus on personal and professional determinants.

Duke University Trinity College

Aug 2023 - Dec 2023

Undergraduate Student, Statistics Course ([Abstract](#))

- "How does the gender of survey respondents affect the perception of gender discrimination in STEM?"
- Conducted a statistical investigation (using R Studio) on gender perceptions of discrimination in the STEM workplace
- Effectively utilizing data from the Pew Research Center and analyzing variables such as gender balance and education level

OCPS Biomedical Science Challenge

Mar 2022 - May 2022

PLTW Biomedical Program ([Presentation](#))

- "How have mutations observed in the Spike protein of the SARS-CoV 2 impacted the efficacy of currently administered vaccines?"
- Placed 3rd (10 teams competing)

Young Scholars Program ([Abstract](#), [Presentation](#), [Certificate](#))

- "Molecular Dynamics Simulation Discovery of Cryptic Sites in SARS-CoV-2 M-pro"
- Presented at the 39th Annual Young Scholars Research Symposium

PROGRAMS

BCG Launch Program

Jan 2024 - Feb 2024

Online Program

- Gaining firsthand insights into the essential skills and knowledge required for a successful journey towards becoming a consulting associate
- Shaping comprehensive understanding of the firm's culture and the intricacies of client engagement.

Mayo Clinic Undergraduate Plummer Scholars (UPS)

Oct 2023 - Feb 2024

Online Program

- Part of a comprehensive nine-month academic year program featuring specialized webinars focusing on critical pre-medical topics, such as MCAT preparation, medical student experiences, and guidance for medical school applications and interviews
- Demonstrating a steadfast commitment to personal and professional growth in the pre-medical field

Penny Pilgram George Women's Leadership Initiative

Sep 2023 - Present

Girls on the Run Triangle Cohort

- Contributing to Girls on the Run Triangle program by implementing a research-based curriculum focused on self-awareness, relationship building, teamwork, and global impact
- Actively involved in organizing the December 5K event and successfully executing a research project as a key initiative within the program

Duke FOCUS: Medicine, Ethics, & Health Policy

Aug 2022 - May 2023

Leadership in Healthcare & End-of-Life Care

- Acquired expertise in narrative medicine and DWD/PAS (Death with Dignity/Physician-Assisted Suicide)
- Evaluated and developed personal leadership style within the context of healthcare
- Gained insights into healthcare structures and systems and crafted a comprehensive hospital management project encompassing administrative, medical, and financial aspects in healthcare.

SELECTIVE CONFERENCES

National Collegiate Research Conference (NCRC) Harvard University

Jan 19 - Jan 21 2024

In-Person Experience, Presenter

- Selected to present a research study on malignant glioblastomas
- Nation's largest student-run research conference

The Future Leaders in Surgery Symposium for Underrepresented Students (FLSSUS) — Durham, NC

Sep 2023

In-Person Experience

- Engaged in medical school admissions and career panels, followed by the Duke University School of Medicine tour
- Took part in interactive learning sessions covering suturing, knot tying, and drilling

The Future Leaders in Plastic Surgery Symposium for Underrepresented Students (FLPSUS)

Sep 2023

Virtual Experience ([Program](#))

- Explored complex medical cases and gained insights into plastic surgery
- Engaged with a panel of underrepresented surgeons and attended a keynote address by Milton Armstrong, MD
- Established valuable connections with medical students for mentorship and guidance, contributing to career exploration and network building.

Virtual Experience ([Program](#), [Certificate](#))

- Gained insights into the neurosurgery field through a diverse range of sessions led by accomplished professionals
- Attended a keynote presentation on "My Neurosurgery Career Journey" by Dr. Edjah K. Nduom, MD, Emory University
- Had the privilege of touring the operating room and joining interactive small group breakout sessions, enhancing knowledge and networking within the neurosurgery community.

Take Action Institute Conference — Orlando, FL

Jan 2022

Holocaust Memorial Resource & Education Center

- Had the privilege of hearing from keynote speaker Eva Schloss, a Holocaust Survivor and step-sister to Anne Frank
- Gained a unique perspective on resistance and resilience, further fueling my passion for advocacy and awareness efforts
- Acquired practical knowledge and strategies to address healthcare disparities and contribute to a healthier society through advocacy and awareness.

COMMUNITY INVOLVEMENT

Pettigrew Rehabilitation Center

Aug 2023 - Present

Volunteer, Skilled-Nursing

- Providing compassionate and attentive care to residents, fostering a positive and supportive environment, and engaging in effective communication with residents and their families
- Assisting healthcare professionals with daily tasks and activities, ensuring the well-being and comfort of patients

Croasdaile Village Retirement Community

Aug 2022 - Present

Volunteer, Independent Living, Memory Care, Skilled-Nursing

25 hours

- Embracing the principles of "being with" and "being for" residents, conducting meaningful life interviews with residents, and creating a supportive and empathetic atmosphere
- Expanding knowledge in end-of-life care options, encompassing hospice care, palliative care, PAS/DWD, VSED, and geriatrics, contributing to a well-rounded understanding of healthcare

Females and Allies Excelling More in Math, Engineering, and Science (FEMMES +)

Aug 2022 - Present

General Member (Aug 2022 - May 2022);

Volunteer, After-School Programming & Mentor (Aug 2023 - Present)

- Facilitating hands-on activities aimed at introducing core concepts in STEM to 4th-6th grade students
- Providing dedicated guidance, mentorship, and empowerment to 6 female-identifying students during activities
- Collaborating effectively with Duke undergraduate mentors to contribute to the success of the program

Orlando Health Dr. P. Phillips Hospital

Jun 2021 - Jul 2021

Volunteer, Inpatient Pharmacy

30 hours

- Packaged and conducted quality checks on approximately 200-300 pharmacy kits weekly, demonstrating attention to detail and adherence to pharmacy protocols
- Ensuring timely and accurate delivery of medications for patient recovery and treatment
- Collaborating with pharmacy professionals, gaining valuable exposure to healthcare operations and teamwork dynamics

AdventHealth Apopka Hospital

Jun 2021 - Jul 2021

Volunteer, Surgical ICU

25 hours

- Efficiently restocking and quality-checking medical supplies in 80 cabinets on a weekly basis
- Assisting nurses with patient care and admission/discharge paperwork
- Engaging with patients, addressing their immediate needs, and ensuring a compassionate and patient-centered approach

SHADOWING

Max B. Medary, MD — Orlando, FL

Neurosurgeon, Greater Orlando Neurosurgery & Spine, Orlando Health

Jun 2021 - Present

10 hrs (Clinic), 50 hrs (OR)

- Shadowed clinic visits (pre- and post-surgical)
- Scrubbed in on a number of surgeries, including craniotomies and laminectomies
- Followed patients throughout their recovery journeys and gained MRI/CT reading skills

Gerald A. Grant, MD — Durham, NC

Chair of the Department of Neurosurgery, Neurosurgeon, Duke Health

Aug 2023 - Present

7.5 hrs (Clinic), 3.5 hrs (OR)

- Shadowed during clinic sessions, evaluating disc herniation, chiari malformation, and brain tumors
- Observed shunt placement surgery on a pediatric patient

Debra L. Sudan, MD — Durham, NC

Kidney/Pancreas, Liver, Small Intestine Transplant Surgeon, Duke Health

Aug 2023 - Present

5 hrs (Clinic) 3.5 hrs (OR)

- Participated in transplant surgery rounds
- Witnessed liver transplant (donor side); aided by Deepak Vikraman, MD

John K. Roberts, MD, MEd, MS — Durham, NC

Kidney/Pancreas Transplant Specialist, Nephrologist

Aug 2023 - Present

8 hrs (Rounds)

- Gained exposure to patient evaluation pre- and post-transplant
- Attended MS1 Lectures: “Patient Care: Approach to the Patient with Hyperkalemia”, “Race and GFR”

Erik F. Hauck, MD — Durham, NC

Neurosurgeon, Duke Health

Aug 2023 - Present

11 hrs (Cath-Lab)

- Observed a cath lab procedure to determine patient qualification for intracranial stent

David E. Attarian, MD, FACS — Durham, NC

Chief Medical Officer, Orthopaedic Surgeon, Duke Health Integrated Practice

Aug 2023 - Present

4 hrs (OR)

- Observed a left hip replacement surgery

Robert J. Mentz, MD — Durham, NC

Chief of the Heart Failure Section, Advanced Heart Failure Specialist, Duke Health

Aug 2023 - Present

10.5 hrs (Rounds)

- Gained experience in advanced heart failure (amyloids and more) and cardiology patient care

Alexander Fishberg, MD — Orlando, FL

Primary Care Specialist, Primary Care Specialists of FL

Oct 2022

4 hrs (Clinic)

- Gained insight into primary care practices and patient interactions

John M. Choi, MD & Diana Lambie, MD — Orlando, FL

Plastic Surgeons, Advanced Aesthetics

Jun 2022 - July 2022

10 hrs (OR)

- Blepharoplasty, brachioplasty, and abdominoplasty surgeries
- Gained exposure to aesthetic surgical procedures and surgical techniques in the field

SKILLS

- | | | |
|--|---------------------------------------|-------------------------|
| • Russian (Full Prof. Proficiency) | • Phlebotomy | • Leadership & Teamwork |
| • Ukrainian (Full Prof. Proficiency) | • Organization & Responsibility | • Time Management |
| • ASL 1 (Elementary Proficiency) | • Problem-Solving & Critical Thinking | • Creativity |
| • R (Elementary Proficiency) | • Compassion and Empathy | • Bedside Manner |
| • Python (Elementary Proficiency) | • Ethical and Professional Behavior | • Cultural Competency |
| • Cell Profiler (Elementary Proficiency) | • Written & Verbal Communication | • Advocacy & Education |

INTERESTS

- Research
- Reading (Fiction, Medical, Classics)
- Cycling/ Spin Classes
- Running
- Traveling
- Yoga/Meditation