

# Hana M Roushdy

[hroushdy@asu.edu](mailto:hroushdy@asu.edu) | +1 (480) 268 0924 | [518 E Draper St, Mesa, AZ, 85203](#)

## EDUCATION

**Interdisciplinary Studies with a concentration in Biological Sciences and Studio Art on the PRE-MED track, Bachelor's of Science, Arizona State University, Tempe, AZ**

Fall 2022 – Present (Expected graduation date: May 2026)

- Integrating rigorous scientific training with artistic approaches to enhance creative problem-solving and observational skills critical for medical careers
- Preparing for medical school through a Pre-Med track, completing essential coursework in biology, chemistry, and physics, while also developing a unique perspective on patient care through the inclusion of visual arts, improving communication and empathy in clinical settings

## RESEARCH EXPERIENCE

**Development of Novel Therapeutic Approaches for Treatment of Lung Injury Following Bone Marrow Transplant, Biomedical Research Intern, Dr. Tatiana Kalin and Dr. Ying-Wei Lan**

June 2025 – Present

- **Honors Thesis (In Progress – Completion May 2026)**

Arizona State University & University of Arizona, College of Medicine Phoenix

*Investigating the use of extracellular vesicle targets as a treatment for GVHD-related lung injury following bone marrow transplant and total body irradiation in neonatal mice.*

**Dyslexia, Reaction Time Variability and Genetic Variants, Genetics Team Member, Dr. Beate Peter**

August 2024 – June 2025

- **Co-author**

American Journal of Medical Genetics Part A (In review)

*Reaction time variability as a potential endophenotype in dyslexia: Behavioral and genetic findings.*

**Health Aging (XPrize Study), Research Team Member, Dr. Susan Racette and Jordan Gunning**

June 2024 – Present

- **Co-author**

NPJ Metabolic Health and Disease Neurometabolism

*Lifestyle strategies and mechanistic implications for slowing neurodegeneration*

- **Honors Thesis (In Progress – Completion May 2026)**

Arizona State University, College of Health Solutions

*Investigating the relationship between exercise-induced metabolic shifts (glucose, lactate, beta-hydroxybutyrate) and anti-amyloid therapy in patients with mild cognitive impairment and dementia*

**Fork HPV! Honors Project: HPV Vaccination Event and Symposium, Project Coordinator and Volunteer, Dr. Carolyn Compton**

Fall 2024

**Generations Genetics Lab, Lab Intern, Dr. Ghada el Sayed**

Summer 2024

## PROFESSIONAL WORK EXPERIENCE

**Medical Scribe, Banner Ocotillo Medical Center, Emergency Department, Chandler, AZ**

May 2025 – Present

- Document patient encounters in real-time, including history, physical exams, diagnoses, and treatment plans. Working with Physicians (MD and DO) and Physician Assistants.

**Student Success Center at ASU**, *Student Success Coach, Tempe, AZ* August 2023 – January 2025

- Conducting one-on-one meetings with students to assess their academic, financial, housing, and social needs, providing resources and connecting them with relevant university departments, and planning and hosting pop-up tabling events to support their success at ASU.

**America Reads at ASU**, *Lead Content Creation Tutor, Online* August 2024 – January 2025

- Plan, assign, and review engaging educational content for students, train and mentor new tutors on content development and delivery and conduct regular quality checks on all educational resources.

**America Reads at ASU**, *Content Creation Tutor, Online* August 2023 – January 2025

- Create activity plans, sheets, and video scripts for elementary students teaching math, reading, or writing standards for YouTube, and organize and film engaging videos ensuring high quality and interactive activities.

**America Reads at ASU**, *Burton Barr Summer Program Tutor, Online* May 2023 – August 2023

- Developed activity plans, sheets, and presentations to teach math, reading, or writing standards, assisted students in understanding lessons and guided them through interactive activities, and followed up on their learning and skill achievements.

**Blanco: Cocina and Cantina**, *Hostess, Phoenix, AZ* December 2022 – March 2023

- Greet and seat guests, assist with making reservations, editing the waitlist, taking calls for managers, taking to-go orders. Complete accurate data entry, electronic filing, and other administrative tasks

## COMMUNITY INVOLVEMENT

**Muslims in Medicine**, *Academic Chair, Tempe, AZ* August 2024 – Present

- Developed and led educational workshops on topics such as organizing pre-med academics, securing clinical and research experiences, managing extracurricular activities, and requesting letters of recommendation, among others.
- Coordinated the tutoring and mentoring program, connecting members with peers for academic support, study strategies, and guidance on challenging coursework.
- Matched students with upperclassmen mentors who share similar career interests, providing personalized advice on preparing for exams like the MCAT, writing personal statements, and navigating the medical or graduate school application process.

**Delta Gamma Fraternity**, *Active Member, Tempe, AZ* August 2024 – Present

- Volunteer at the Foundation for Blind Children and participate in events for the Foundation Fighting Blindness, raising awareness and funds for sight-related causes
- Support Delta Gamma's philanthropy by organizing and contributing to fundraising efforts for Guide Dogs for the Blind and other programs.
- Actively engage in community service projects and chapter events, fostering connections and promoting the fraternity's mission to support individuals with visual impairments.

**Medical Humanities Association**, *Treasurer and Secretary then President, Tempe, AZ* August 2022 – Present

- Plan and prepare humanities and arts wellness workshops with the residents of Mirabella at ASU with a focus on healthcare and medicine
- Guide the workshop, prepare the worksheets, plan team meetings, connect with the residents and staff

**Egyptian Student Association**, *President, Tempe, AZ* August 2023 – Present

- Plan and organize events for the club
- Plan creative and fun events for the Egyptian students on campus

**American Holistic Nurses Association**, *Treasurer then Vice President*, Tempe, AZ August 2022 – Present

- Plan and submit the budget for events, general club funding, and club operations
- Coordinate with ASU and my team to purchase items for events and approve purchase/budget request
- Attend and help set up AHNA events
- Set up and organize AHNA events and lead our talking circles, member wellness meetings, and semesterly de-stress events

**Omega Phi Alpha – National Service Sorority**, *Member*, Tempe, AZ January 2023 – Present

- Volunteer and participate in events that serve the university community, the community at large, members of the sorority, and nations of the world
- Participating in: Girl Scout Badge day, Fire Alarm Walks, Mental Health Awareness tabling, Mid-term De-stress events, Sisterhood retreats, etc.
- Helped organize events and information session for the honors program

## PROGRAMS

**Mayo Clinic/Barrett Pre-medical Scholars Program**, *Scholars*, Mayo Clinic Alix School of Medicine and Barrett, The Honors College (ASU), Phoenix, AZ

September 2025 – (Expected) August 2026

- In this program, I will be shadowing physicians for 20 to 40 hours, attending three monthly labs or lectures hosted by the Mayo Clinic Alix School of Medicine focusing on hands-on skills, medical field topics, and networking opportunities, and participating in at least three community service activities arranged by the Mayo Clinic.

**Phoenix/Flinn Foundation Summer Research Program**, *Lab Intern*, University of Arizona College of Medicine, Phoenix, AZ

Summer 2025

- Assisted with multiple research projects in Dr. Tatiana Kalin’s laboratory (PI), actively learning a wide range of bench-side techniques and supporting fellow lab members with their experiments. Gained experience in mice organ harvesting, paraffin sectioning, immunofluorescence and H&E tissue staining, PCR and qPCR, among other laboratory methods.
- Participated in “Lunch and Learn” sessions as part of the Flinn Intern cohort, engaging with faculty from diverse specialties such as cardiology, endocrinology, and psychiatry.

**Emergency Department Internship (120 hours) – Banner Desert Medical Center**, *Intern and Shadowing*, Mesa, AZ

January 2025 – May 2025

- Worked closely with ED technicians and nurses to gain firsthand exposure to critical patient care scenarios. Observed and assisted in the trauma and resuscitation bays, witnessing procedures such as patient stabilization, CPR, and the application of medical devices, while also learning about essential tasks like phlebotomy and wound care. Gained valuable insight into the fast-paced operations of an emergency department, including patient assessments, medication administration, and the utilization of essential medical technologies.

**Children’s Emergency Department Bulletin Board Decoration (5 board designs) – Banner Desert Medical Center**, *Volunteering*, Mesa, AZ

January 2025 – Present

- Designed and decorated a 6-by-4-foot bulletin board in the pediatric emergency department, incorporating 3D elements, vibrant backgrounds, and interactive prompts to engage and uplift children and their families.

- Created themed displays for occasions such as Valentine’s Day, St. Patrick’s Day, springtime, Mother’s Day, and “Sun Facts Under the Sea,” each tailored to spark curiosity and bring joy to young patients.

**Shadowing (50 hours) – Al-Salaam Hospital, *Shadowing*, Cairo, Egypt** June 2024 – July 2024

- Shadowed physicians in the operating rooms observing a variety of surgeries including cesarean sections, open-heart surgeries, and oncology procedures, while gaining insights into anesthesiology, angiography, and emergency response during code blue and code pink scenarios.

**Internship/Shadowing (60 hours), Baheya - Breast Oncology Hospital for Early Detection and Treatment of Breast Cancer, *Cairo, Egypt*** June 2024 – July 2024

- Completed clinical rotations at Baheya Cancer Institute across multiple departments, including radiotherapy, pathology, and surgery, focusing on breast cancer treatment, while gaining hands-on experience assisting a breast cancer surgeon with scribing, patient consultations, and learning advanced clinical practices.

**Premedical Scholars Program – University of Arizona Medical School Phoenix and Banner University Medical Center Phoenix, *Scholar and Volunteer*** August 2024 – Present

- Attend pre-medical school workshops, conferences, and panels to gain insights into medical school preparation and connect with alumni.
- Shadow physicians at Banner – University Medical Center Phoenix (BUMCP) to observe patient care and clinical practices.
- Volunteered 120 hours with the Care Coordination Team, managing Medicare consent messages for medical release and supporting patients in all hospital departments.
- Currently volunteering in the NICU as a baby cuddler for babies experiencing distress from withdrawals, lack of family presence, infections, and breathing issues. Completed 40 hours thus far.

**Undergraduate Scholars Plummer Program – Mayo Clinic, *Scholar*** September 2024 – May 2025

- Attend bi-monthly Zoom webinars hosted by the Office of Education and Diversity at Mayo Clinic, focused on preparing underrepresented students for careers in medicine and gaining insights into medical school pathways through the Undergraduate Plummer Scholars Program.

**REACT: Refugee Education and Clinic Team, *Clinical Branch Member*** October 2024 - Present

- Assist in providing healthcare support to underserved refugee populations by volunteering in clinical settings, helping with patient intake, and supporting medical professionals during clinic operations.

**Pat Tillmans Scholars Program, *Scholar, Cohort T19*** January 2023 – May 2025

- Awarded the prestigious Pat Tillman Scholars title for demonstrating strong academic performance, leadership potential, and a commitment to service, embodying the values and legacy of Pat Tillman
- Engaged in community service and leadership activities, including organizing and participating in volunteer projects aimed at improving local communities and supporting veteran affairs
- Participated in rigorous academic and personal development programs, enhancing skills in leadership, critical thinking, collaboration, preparing for impactful careers in diverse fields

**Barrett, The Honors College – *Honors Student*** Fall 2022 – Present

- Completion of 6 honors contracts and honors projects
  - An honors contract at Barrett, The Honors College at Arizona State University, is a personalized agreement between a student and a professor to complete additional, advanced coursework or a project within a regular class to elevate it to honors level, fostering deeper engagement and learning.
- Participation in honors courses: HON 171: Human Event 1 and HON 272: Human Event 2

- o The HON 171 and HON 272 human event classes at Arizona State University are part of the Barrett Honors College curriculum, focusing on interdisciplinary analysis of significant ideas, individuals, and issues in human history, encouraging critical thinking and a deeper understanding of the forces that shape human experience.

## AWARDS

- Dean's List, *Summa cum laude*** Fall 2022 – Spring 2025
- In recognition of outstanding academic achievement
- Employee of the Semester, *America Reads at ASU*** Fall 2023 – Fall 2024
- Recognized as Employee of the Semester (one per semester) for exceptional dedication in tutoring students in content creation, significantly improving their academic outcomes, and receiving outstanding feedback for interactive and personalized teaching methods and high quality work
- Community Involvement Member of the Year, *Barrett, The Honors College*** Fall 2022 – Spring 2023
- In recognition of exceptional community service hours (100+)

## PROJECTS AND INITIATIVES

- Barrett Honors Thesis, *Project, in collaboration with Madeline Blatt, Tempe, AZ*** Fall 2024 - Spring 2025
- Completed our honors thesis project which is a fully functional Narrative Medicine course that will be launched virtually at ASU to teach pre-healthcare students about the principles and practices of narrative medicine. We have already launched an iCourse crash course version of our syllabus that has been already integrated in Dr. Dawn Augusta's Integrative Health program upper division courses.
- Health Humanities Consortium, *Presenter, Creighton University of Medicine, Phoenix, AZ*** Spring 2024
- As part of the initiatives of Medical Humanities Society at ASU, we conducted IRB approved surveys for our residents to test the efficacy of our workshops and the work we do with the elderly community at Mirabella at ASU
  - Presentation title: Healing the Relationship Between the Elderly Community and the Healthcare System
- Narrative Medicine Conference, *Presenter and Attendee, Columbia University of Medicine, New York City, NY*** Fall 2023
- Participated in the Narrative Medicine Conference at Columbia University, engaging in interdisciplinary workshops and seminars focused on integrating the principles of narrative medicine into healthcare practices to enhance patient care and communication
  - Collaborated with healthcare professionals and academics to explore innovative methods of incorporating storytelling, humanities, and the arts into clinical practice, gaining insight into the role of narrative in understanding patient experience and improving treatment outcomes.

## VOLUNTEERING:

Volunteered with the following organizations in addition to previously listed roles:

- Banner University Medical Center Phoenix = Volunteering in NICU department and used to volunteer in patient care/quality and donations department
- Rondald McDonald House – Brunch buddies food service team
- Robinson's Ranch – Ranch maintenance team (feeding, cleaning, stocking)

- Project C.U.R.E, Tempe – Medical equipment and supplies packing for underserved communities locally and internationally
- Feed My Starving Children – Food packing for food insecure communities internationally
- Saint Mary’s Food Bank – Food packing for food insecure families in the local phoenix metro area
- Phoenix Children’s Museum – “Playtologist” and summer camp volunteer
- Nourish PHX – Clothing sorting for donation center
- UMOM – Painting and renovating of success center for homeless housing facility
- Keep Tempe Beautiful – Local park and trails cleanups
- St. Vincent De Paul: Mesa and Phoenix Dining Halls and Gardening Urban Farm – Food prep and serving for homeless people & packing hygiene bags for homeless and planting in urban farm

## CLINICAL SHADOWING:

- Dr. Micheal Duran, Oncological Orthopedic Surgeon, Banner Desert Medical Center, Mesa, AZ = 12 hours
- Dr. Denege Ward-Wright, Internal Medicine (Hospitalist), Banner University Medical Center = 8 hours
- Dr. Jennifer Nelson, Med/Peds, Banner University Medical Center = 12 hours