

Dominic P. Tanzillo

SECOND-YEAR MEDICAL STUDENT · DUKE UNIVERSITY SCHOOL OF MEDICINE

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Education

Duke University

MEDICAL DOCTORATE

- Second year student beginning clinical rotations.
- **Armstrong Scholar** - pursuing medical humanities concentration.

Durham, NC

Aug 2022 - Present

Duke University

B.S. IN MATHEMATICS AND B.S. IN NEUROSCIENCE

- Cumulative **GPA of 3.96**.

Durham, NC

Aug 2016 - May 2021

Honors & Awards

DUKE AWARDS

- Apr 2023 **Chancellor's Fellow**, Duke University School of Medicine
- May 2020 **Phi Beta Kappa, Junior Inductee**, Duke University
- 2016-21 **Dean's List with Distinction and Dean's List**, Duke University, Every Semester Bar 1
- May 2019 **Summer Neuroscience Fellow**, Duke University
- May 2019 **Student Marshall**, Duke University Graduation

Durham, NC

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Courses, Publications & Active Grants

Center for the Advancement of Science in Space and International Space Station

Houston, TX

PROJECT LEAD - SPACE MEDICINE DOCUMENTATION

Jul 2023 - present

- Applied for and received grant worth over **\$80,000** to provide new educational modules for [the Space Medicine Coursera](#) by year 2027.
- Expansion of course is slated to improve diversity and accessibility of space medicine by engaging under-represented and younger learners.
- Will script, storyboard, and practice lectures with astronauts for them to record in Houston.
- Will travel to Houston, Bay Area California and Cape Canaveral to record lectures on NASA bases.

Course: Space Medicine

Durham, NC

DUKE UNIVERSITY COURSERA PLATFORM

Jul 2021 - Present

- Scripted, recorded, and directed six weeks of videos exploring medicine in space with over **8,000 enrollments** to date.
- Developed learning assessments, managed guest lecturers, and ran live sessions for the **250+ students** in the first cohort, summer 2021.
- Opened course up to students outside of the Duke network [with Duke Learning Innovation](#) for anyone to be introduced to the field.

Paper: Stereotactic and Functional Neurosurgery

San Francisco, CA

CT AND MRI IMAGE FUSION ERROR: AN ANALYSIS OF CO-REGISTRATION ERROR

Feb 2021

- Second name author for quantifying the error in co-registration of two medical imaging formats.
- Collected data, ran statistical analysis, and verified the existence of a bias in the auto-merged function.
- Publication is available at: <https://doi.org/10.1159/000511114>

Course: Space Health 101

Duke University

DUKE UNIVERSITY AND BAYLOR COLLEGE OF MEDICINE

Aug 2020 - May 2021

- Taught undergraduate seminar for Duke students to learn about the health hazards and practice of medicine in the space environment.
- Integrated physics demonstrations, virtual reality simulations, and medical case studies for socially distant learning.
- Hosted guest lectures from Duke Medical Center, NASA Johnson Space Center, and the United States Air Force.
- Recorded lectures from House Course available on the [TRISH Orbit Platform](#) for anyone in the world to enjoy the lectures.

Recent Work & Research Experience

Spine Group, Duke Neuroradiology

Durham, NC

MEDICAL STUDENT RESEARCHER

Jan 2023 - present

- Received IRB approval to create and manage world's largest CSF Leak Disorder database using records of patient at Duke.
- Leading three undergraduate students to organize database while on clinical year.

Tietronix Software, Inc.

Houston, TX

SOFTWARE DEVELOPER AND SYSTEMS ENGINEER

Jun 2021 - Present

- Work on a variety of NASA, Air Force, and hospital contracts to understand and protect human health in extreme environments.
- Creating instructions and gestures in augmented reality for autonomous deep space imaging and surgery medical procedures.
- Mapped earth and space communications as a systems engineer for NASA's **Flight Operations Directorate**.
- Modeled human physiology and response to high energy stimuli for the US Armed Forces' Tri-Service Research Laboratory.
- Developed virtual reality training modules and software for astronaut, surgeon, and first responder medical education.

Non-Profit Work

DukeCOMIDA

Durham, NC

CO-FOUNDER AND PRESIDENT

Apr 2023 - present

- Co-created a non-profit that provides nutritional assistance to pregnant Hispanic women who are at risk for gestational diabetes.
- Co-wrote and received over **\$30,000** in grant funding from the Chancellor's Office of the Medical School.
- Connected Duke University School of Medicine to The Durham Community Food Pantry to bring in over 100 new student volunteers.
- Have position in Durham Community Food Pantry leadership and coordinate monthly mobile food deliveries.

Duke University School of Medicine: Student Faculty Show Musical

Durham, NC

PRODUCER AND TREASURER

Dec 2022 - Mar 2023

- Worked with departments and local companies to raised over **\$30,000 for Families Moving Forward**.
- Contributing to storyboard and script annual for school musical with brief cameo.

Students for the Exploration and Development of Space (SEDS)

National Non-Profit

CHAPTER EXPANSION MANAGER

Nov 2021 - Present

- Oversee the onboarding and development of new US-based chapters, with emphases on high school and HBCU recruitment.
- Started and chair fortnightly access meetings to ensure all students can find their voices in space.
- Working with Bethesda Games to fund over **\$10,000** new initiatives to encourage access for minority students in space.

Public Engagement & Media Appearances

TEDxDuke Talk

Durham, NC

"WHAT SPACE MEDICINE TAUGHT ME ABOUT SCIENCE COMMUNICATION"

Feb 2023

- Opening speaker at the 2023 TEDxDuke Conference
- Provided a talk bridging the gap between scientific research and outreach and egagement.

SEDS SpaceVision 2022 Invited Speaker

Chicago, IL

SPACE MEDICINE PANELIST

Nov 2022

- Invited speaker with travel paid at the largest undergraduate space-industry conference.
- Introduced undergraduates to field of aerospace medicine.

Spherical Cows Podcast

Houston, TX

CO-CREATOR AND HOST

Sep 2021 - Present

- Created, recorded, and edited two seasons of space medicine interview podcast.
- Currently releasing second season and recording third.
- Show debuted to Apple Podcast's Top 10 Science Podcast in first season.

On Orbit Podcast

Houston, TX

GUEST - "EXPLORING SPACE MEDICINE WITH DOMINIC TANZILLO"

Aug 2021

- Start of podcast career hoping to encourage students to engage with the field of space medicine.

Medical School Leadership

The Hippocratic Society

Duke University - Durham

FOUNDER AND PRESIDENT OF DUKE'S CHAPTERS

Feb 2023 - Present

- Founded Duke's Chapter of The Hippocratic Society, a group dedicated to medical humanities.
- Wrote several articles on integrating the virtues into medical student life including one on [Innocence](#).
- Serving on public affairs committee for helping the group face public audiences including designing the logo.

Interventional Radiology Interest Group

Duke University - Durham, NC

EXECUTIVE BOARD MEMBER

Sep 2022 - Present

- Helped recruit new students to the emerging field of interventional radiology.
- Co-sponsored events with the orthopedic surgery club to increase recruitment for more students.

Wilderness, Austere, and Extreme Medicine Interest Group

Duke University - Durham, NC

EXECUTIVE BOARD MEMBER

Sep 2022 - Present

- Hosted events with run, rock climbing, and hiking clubs to introduce students to wilderness medicine.
- Worked with Duke Hyperbarics and Duke Life Flight to provide tours of their respective facilities and allow student shadows.

Duke HealthCARES

Duke University - Durham, NC

TREASURER

Sep 2022 - Present

- Managed budget of only student group to support formerly incarcerated men to receive healthcare.
- Created budget and plan for Chancellor's Award Fellowship to receive over **\$4,000** of funds in first year.