

CURRICULUM VITAE

NAME: Khamron Micheals, PhD, MHA, RRT
POSITION: Postdoctoral Fellow
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EDUCATION

05/2024 University of Texas Medical Branch – Galveston, TX
Doctor of Philosophy in Public and Population Health

- Mentor: José D. Rojas, PhD, RRT, FAARC
- Dissertation: *Respiratory Parameters, Pulmonary Rehabilitation and Survival Among COVID-19 Patients*

08/2022 University of Texas Medical Branch – Galveston, TX
Doctor of Philosophy in Biomedical Sciences
05/2020 Texas Southern University – Houston, TX
Master of Science in Healthcare Administration
08/2016 University of Texas Medical Branch – Galveston, TX
Bachelor of Science in Respiratory Care

RESEARCH INTERESTS

- Pediatric asthma disparities
- Race-neutral vs. race-specific lung function equations
- Structural and system-level drivers of health inequities
- Machine learning and explainable AI in population health
- Equity in advanced therapies (e.g., biologics)

TEACHING INTERESTS

- Research methods (introductory through advanced)
- Statistics and data analysis in health sciences
- Epidemiology and population health
- Respiratory care and pulmonary health disparities
- Health equity and implementation science

PUBLICATIONS

Peer-Reviewed

1. **Micheals K**, Bhavnani D, Matsui EC. (Jan 2025) *Examining disparities in biologic therapy initiation: The intersection of race/ethnicity and insurance type*. Journal of Allergy and Clinical Immunology, 155(3):810–812.
<https://doi.org/10.1016/j.jaci.2025.01.002>. PMID: 39761796.
2. **Micheals K**, Lee MJ, Al Snih S, Rojas JD. (Jun 2023) *The effect of oxygenation impairment and compliance on mortality among COVID-19 subjects requiring mechanical ventilation*. Respiratory Care. Advance online publication.
<https://doi.org/10.4187/respcare.10776>.

Under Review

1. **Micheals K**, Hall EM, Chambliss S, Balcer-Whaley S, Zárata RA, Rodriguez E, Matsui EC. *Disparities in Asthma Control and Treatment: A Spotlight on Mexican American Children*. Under review at *The Journal of Allergy and Clinical Immunology*.

In Preparation

1. **Micheals K**, Al Snih S, Tucker CA, Rojas JD. *Dyspnea, Physical Function and Pulmonary Rehabilitation among Long-COVID Subjects: A Retrospective Study*.

PRESENTATIONS

National

- **Micheals K**, Nguyen W, Al-wesabi Y. Explainable Machine Learning for Pediatric Asthma Diagnosis. Poster, AIM-AHEAD Annual Meeting, Dallas, TX (July 2025).
- **Micheals K**, Hall EM, Chambliss S, et al. Disparities in Asthma Control and Treatment: A Spotlight on Mexican American Children. Poster, AAAAI Annual Meeting, San Diego, CA (Feb 2025).
- **Micheals K**, Duncan S, Walsh B. Developing a 3D Printed Fluidic PAP Device: A Bench Comparison. AARC Congress, Orlando, FL (Nov 2024).
- **Micheals K**, Golovko G, Rojas JD. TriNetX for Evidence-Based Respiratory Therapy Practice. AARC Congress, Orlando, FL (Nov 2024).
- **Micheals K**, Tucker CA, Golovko G, Rojas JD. Impact of Socioeconomic Disparities on Pulmonary Rehabilitation in Long COVID. AARC Congress, Orlando, FL (Nov 2024).
- **Micheals K**, Lee MJ, Al Snih S, Rojas JD. ARDS Severity and Survival in COVID-19 Ventilation. *Editor's Choice* Presentation, AARC Congress, New Orleans, LA (Nov 2022).

Regional

- **Micheals K**, Hall EM, Chambliss S, et al. CHEER Research Symposium, UT Austin (Mar 2025).
- **Micheals K**. Pulmonary Rehabilitation Among Long COVID Patients. Continuing Education, ContinuED Respiratory Therapy (July 2024).
- Multiple guest lectures, UTMB (2023).

TEACHING EXPERIENCE

05/2025 – 07/2025 **Affiliate Instructor, Boise State University, Department of Respiratory Care**

- RESPCARE 521: Applied Research Methods
- RESPCARE 505: Introduction to Research Methods
- Designed and delivered lectures; led synchronous and asynchronous modules; emphasized applied interpretation of statistics.

08/2023 – 05/2024 **Teaching Assistant, UTMB School of Health Professions, Department of Respiratory Care**

- Courses: Capstone Experience, Introduction to Research, Evidence-Based Practice, Introduction to Scientific Writing.
- Roles: Mentored research projects, guided scientific writing, delivered modules, provided feedback, and supported evidence-based practice training.

FELLOWSHIPS AND POSTDOCTORAL TRAINING

01/2025 – Present	NIH AIM-AHEAD ScHARe Fellowship Program <ul style="list-style-type: none"> Focus: AI/ML methods to reduce health disparities and advance population health equity. Activities: Structured mentorship, cloud computing resources, collaborative explainable AI pipelines.
07/2024 - Present	NIH T32 Collaborative (School of Social Work and Dell Medical School) Fellowship, UT Austin <ul style="list-style-type: none"> Mentors: Darlene Bhavnani, Elizabeth Matsui, Catherine Cubbin, Carolyn Brown Focus: Health equity in cardiopulmonary disease; research design, publishing, cross-disciplinary collaboration.
08/2024 – 05/2025 School	Implementation to Research (I2R) Seminar Series, Dell Medical School <ul style="list-style-type: none"> Auditor; yearlong training in epidemiologic design, mixed-methods, implementation science.
05/2024 – 07/2024	Postdoctoral Fellow, CRAVE Lab, UTMB <ul style="list-style-type: none"> Supervisor: Brian K. Walsh, PhD Projects: Evaluated novel ventilatory support devices (fluidic ventilator, fluidic PAP device).

HONORS AND AWARDS

07/2025	Best Poster Award, AIM-AHEAD ScHARe Training Program
05/2024	Excellence in Research and Scholarship Award, UTMB School of Public and Population Health
10/2023	Pre-Doctoral Fellowship/Scholarship, CoBGRTE-NBRC
02/2022	Pre-Doctoral Fellowship/Scholarship, CoBGRTE
2018 – 2020	Dean's List, UTMB (2020–2021), TSU
2018 – 2020	Golden Key International Honor Society, Texas Southern University
2022	Travel Stipend, TACCSTER Symposium
05/2024	Postdoctoral Fellowship Offer, Brown University Department of Pulmonary Critical Care

SERVICE

01/2025 – Present	Board of Directors, American College of Respiratory Therapy Education <ul style="list-style-type: none"> National leadership role; contribute to strategic planning, academic standards, and workforce advancement.
07/2024 – Present	Chair, Scholarship Committee, ACRTE <ul style="list-style-type: none"> Lead scholarship review and award process; manage program development.
2022 – 2024	Committees, UTMB <ul style="list-style-type: none"> Professionalism Committee Student Affairs Committee Academic Affairs Committee
Other Roles	
04/2025	Seminar Co-Organizer and Moderator, UT Austin T32 Ethics Seminar
Summer 2024	Clinical Advisor, BreatheEase Project, Dell Medical School
2023 – 2024	Panelist, Blackstone Launchpad and Innovation Camps

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

2021 – Present	American Association for Respiratory Care
2021 – Present	American College of Respiratory Therapy Education
2016 – Present	Texas Society for Respiratory Care
2022 – 2024	American Public Health Association
2021 – 2024	Honor Society Foundation

LICENSURE / CREDENTIALS

- Certified Respiratory Therapist (NBRC, 2017)
- Registered Respiratory Therapist (NBRC, 2017), #160999
- Respiratory Care Practitioner (Texas Medical Board, 2017), RCP #02001038

I have read and take responsibility for the information in this document

KMicheals

Signature

08-29-2025

Date