

# Louisa Weindruch, DO

## EDUCATION

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<b>Baylor University Medical Center (BUMC) Department of Emergency Medicine</b> <i>Residency Training Program, Expected Completion May 2026</i>	Dallas, TX June 2023-Present
<b>University of North Texas Health Science Center, Texas College of Osteopathic Medicine (UNTHSC-TCOM)</b> <i>Doctor of Osteopathic Medicine</i>	Fort Worth, TX July 2019 – May 2023
<b>Southern Methodist University (SMU)</b> <i>Bachelor of Arts, Biology; Bachelor of Science, Health &amp; Society; Minor in French</i> <ul style="list-style-type: none"><li>Cum laude, Honors in the Liberal Arts</li></ul>	Dallas, TX August 2013 – May 2017

## AWARDS AND RECOGNITIONS

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Society of Academic Emergency Medicine, Excellence in Emergency Medicine Award	May 2023
TCOM Student Doctor of the Year “Honorable Mention” Recognition	December 2022
TCEP Best Student Abstract Presentation Award	April 2022
Gold Humanism Honor Society	Inducted April 2022
SaferCare Texas Excellence in Patient Safety Research	March 2022
TCOM Student Doctor of the Year Nominee	November 2021
TCOM Student Doctor of the Month	February 2021
Council of Osteopathic Student Government, Gold Award <ul style="list-style-type: none"><li>Recognition for over 100 hours of community service during the 2019-2020 school year</li></ul>	August 2020
Sigma Sigma Phi Osteopathic Honor Society	Inducted January 2020
SMU Honor Roll	Fall 2013, Spring 2014, Fall 2014, Spring 2015, Spring 2016

## LEADERSHIP AND EXTRACURRICULARS

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<b>BUMC Emergency Medicine Residency Program</b> <i>Social Media and Social Events Planner</i> <ul style="list-style-type: none"><li>Create and post content to program’s Instagram and Twitter pages</li><li>Plan and coordinate monthly social events for residents and rotating medical students</li><li>Attend residency recruitment events, including virtual information sessions and in-person events</li><li>Assist with community outreach, including teaching ultrasound and EM procedures to local student groups</li></ul>	July 2023-Present
<b>Emergency Medicine Residents’ Association (EMRA) Ultrasound Committee</b> <i>Committee Chair</i> <ul style="list-style-type: none"><li>Oversee general functioning of the committee, including meetings, projects, and completing administrative tasks</li><li>Reorganized submission process for “POCUS for the Win” article series in EMResident Magazine, which includes reviewing, editing, and writing articles for digital publication</li><li>Lead planning efforts for events at ACEP Scientific Assembly 2024, including 2<sup>nd</sup> annual medical student POCUS workshop and ultrasound-guided regional anesthesia workshop</li><li>Continue to represent the committee as EMRA Representative to the ACEP Ultrasound Section</li></ul>	February 2024-Present
<i>Committee Chair-Elect</i> <ul style="list-style-type: none"><li>Assisted with group projects and led committee meetings with the help of the Committee Chair</li><li>Served as the EMRA Representative to the ACEP Ultrasound Section</li><li>Planned and executed events for ACEP Scientific Assembly 2023, including a medical student POCUS workshop and first-annual ultrasound-guided regional anesthesia workshop</li><li>Assisted with planning and execution of musculoskeletal POCUS workshop at CORD 2023 Conference</li></ul>	February 2023-February 2024
<i>Assistant Vice Chair</i> <ul style="list-style-type: none"><li>Selected by committee leadership to become further involved with committee operations and medical education projects</li><li>Helped create a survey to evaluate prevalence of ultrasound curricula in medical schools</li><li>Assisted with planning of TEE workshop at ACEP Scientific Assembly 2022</li></ul>	February 2022-February 2023
<i>General Member</i> <ul style="list-style-type: none"><li>Attended committee meetings and events, including panels and lectures related to ultrasound and medical education</li><li>One of five committee members involved in a project aiming to provide POCUS resources to medical schools</li></ul>	April 2021-February 2022
<b>EMRA Leadership Academy</b>	March 2023-March 2024

### *Program Participant*

- Selected to participate in year-long professional development course which featured monthly lectures and meetings with leaders in Emergency Medicine
- Attended in-person events at CORD 2023 and ACEP 2023 Conferences
- Completed capstone project which involved surveying 2<sup>nd</sup> year medical students on their opinions of the Emergency Department

### **American College of Osteopathic Emergency Physicians (ACOEP)**

#### *Secretary*

October 2022-August 2023

- Assisted with monthly calls with student leaders, conference planning, and supported general activities of the Resident Student Organization (RSO)

#### *Graduate Medical Education Chair*

October 2021-October 2022

- Elected by board members to plan the residency fair and residency “speed dating” events for the 2022 Fall Scientific Assembly Conference
- Successfully executed residency “speed dating” for over 20 residency programs and over 50 students

### **Texas College of Emergency Physicians Medical Student Committee (TCEP MSC)**

#### *Committee Chair*

March 2022-March 2023

- Oversaw committee activities, including meetings with student leaders and communication with the TCEP board
- Worked alongside faculty to plan and execute TCEP Connect Conference events, including Residency Speed Dating and Medical Student “Olympics”
- Served as the point of contact for the Fall 2022 “Meet the Program” information sessions, working alongside committee members and residency leadership to coordinate virtual events
- Planned the 3<sup>rd</sup>-annual MSC Colloquium virtual conference, which included guest speakers and a resident panel
- Attended legislative training sessions and participated in TCEP Advocacy Day at the Texas State Capitol

#### *Project Coordinator*

April 2021-March 2022

- Partnered with committee chair and residency program leadership to plan several information sessions for EM programs from Texas during our “Meet the Program” series
- Planned a 3-day virtual conference (TCEP MSC Colloquium) for over 100 students, that included 5 speakers, a simulation event, and a program director panel
- Promoted community outreach initiatives across Texas, including Two-Step CPR and Lone Star Survival Tourniquet Training

### **TCOM Emergency Medicine Interest Group (EMIG)**

#### *Fourth-Year Representative*

February 2022-May 2023

- Representative for the fourth-year class on the EMIG executive board
- Oversaw club activities, assisted with event planning, and continued to serve as a mentor for younger students

#### *Third-Year Representative*

February 2021-February 2022

- Representative from the Class of 2023 on the EMIG executive board
- Attend board meetings, assist with EMIG events, and mentor younger students
- Club selected as EMRA “EMIG of The Year” and ACOEP “EMIG of The Year” for 2021-2022

#### *President*

January 2020-February 2021

- Planned and executed over 20 events, including speakers, panels, skills clinics, and recruitment meetings
- Served as liaison between EMIG, UNTHSC administration, and national organizations
- Lead executive board meetings
- Club selected as the ACOEP “EMIG of The Year” and EMRA “EMIG of The Year Runner Up” for 2020-2021

#### *First-Year Representative*

September 2019-January 2020

- Elected by club members to represent the first-year class on EMIG executive board
- Helped facilitate guest speakers, skills clinics, journal club, and community service events
- Created monthly shadowing schedule for members
- Club selected as the ACOEP “EMIG of The Year” and EMRA “EMIG of The Year Runner Up” for 2019-2020

### **UNTHSC Point-of-Care Ultrasound Microcredential Program**

#### *Student Coordinator*

May 2021-May 2022

- One of five student leaders involved in creating a comprehensive ultrasound workshop and certification program for medical students and residents
- Played an integral role in program scheduling, curriculum development, recruitment, and student registration
- Hand-made over 20 gelatin models to use for peripheral IV and biopsy simulation activities

### **TCOM Ultrasound Teaching Assistant Program**

*Teaching Assistant*

March 2020-May 2022

- As a second-year student, led ultrasound sessions for groups of 5-10 students during Year 1 Physical Exam, Year 2 Simulation Lab, and after-school practice sessions
- As a third-year student, led ultrasound instruction during the UNTHSC Point-of-Care Ultrasound Microcredential Program workshops
- Over 100 hours spent teaching point-of-care ultrasound

**TCOM Student Initiative in Medical Simulation (SIMS)**

*Team Member and Mentor*

July 2019-May 2022

- Participated in medical simulation cases as team historian, taking patient histories and interacting with family members during simulation cases
- Mentored first and second-year students interested in simulation by helping them organize and run cases
- Selected by faculty to be involved in the planning and development process for UNTHSC's new simulation center

**TCOM Ultrasound Interest Group (USIG)**

*Secretary*

August 2020-March 2021

- Supported executive board with planning and execution of meetings and events
- Handled administrative tasks, such as meeting notes, event sign-ins, and social media
- Assisted with planning, recruitment, and selection for Ultrasound Teaching Assistant Program

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**RESEARCH AND SCHOLARLY ACTIVITIES**

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**3D-Printed Phantom to Simulate Ultrasound-Guided Pericardiocentesis**

December 2021-May 2022

- One of three students involved in constructing a lifelike model to simulate ultrasound-guided pericardiocentesis

**Demonstration of Ultrasound Competency for Hypertrophic Cardiac Abnormalities in Pediatric Patients**

May 2021-May 2022

- Evaluated medical students' ability to identify and measure the interventricular septum using hand-held ultrasounds, as a potential way to screen for hypertrophic cardiomyopathy in pediatric and adolescent patients
- Supervised by Dr. John Gibson and Dr. Damon Schranz, Department of Family Medicine

**Near Peer Ultrasound Education Evaluation**

October 2020-October 2021

- Created a comprehensive survey for students and ultrasound teaching assistants to evaluate the efficacy of peer-to-peer teaching methods in TCOM's ultrasound program with Dr. John Gibson, Department of Family Medicine

**UNTHSC Pediatric Research Program**

June-July 2020

- Selected to participate in the modified virtual program during the COVID-19 Pandemic
- Analyzed a case report on pediatric multi-system trauma from the NEJM under the guidance of Dr. Sam Selby, Pediatric Emergency Medicine
- Presented to students and faculty on key findings and learning outcomes from the project

**University of Texas Southwestern Medical Center**

June-December 2016

- Selected as part of a competitive undergraduate research program (SURF-Cancer) to work in the lab of Dr. Ram Mani, studying prostate cancer and DNA repair mechanisms
- Conducted and presented an independent research project entitled "Understanding the Role of NUDT1 and Oxidative Stress in Prostate Cancer Progression"
- Continued summer lab work through the fall semester as a research intern

**Centre de Recherche sur l'Inflammation (Paris, France)**

October-December 2015

- Completed an internship and independent research project while studying abroad with the Institute for Field Education during the Fall 2015 semester
- Studied digestive cancers alongside the Paradis/Couvineau lab with the goal of improving the immunofluorescence protocol for proteins of interest, OX1R and OX2R
- Presented findings and completed dissertation entitled "The Visualization of OX1R Using Immunofluorescence"

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**POSTERS AND PRESENTATIONS**

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## Oral Presentations

1. **Weindruch, L.** *Medical Student Advocacy – Tips for Finding Your Place in Organized Medicine*. Texas College of Emergency Physicians Connect Conference. Austin, TX, USA. April 16, 2023.
2. **Weindruch, L.,** Wyszynski, K. *Demonstration of Ultrasound Competency for Hypertrophic Cardiac Abnormalities in Pediatric Patients*. Inteleos POCUS World Virtual Conference (Virtual). Rockville, MD, USA. September 17, 2022.
3. Miller, C., **Weindruch, L.** *Creating a Novel 3D Printed Phantom to Stimulation Ultrasound-Guided Pericardiocentesis*. Inteleos POCUS World Virtual Conference (Virtual). Rockville, MD, USA. September 16, 2022.
4. **Weindruch, L.** *Community Outreach - How Your EMIG Can Make a Difference at Your School and Beyond*. American College of Osteopathic Emergency Physicians Spring Seminar. Fort Lauderdale, FL, USA. April 10, 2022.
5. Miller, C., **Weindruch, L.,** Gibson, J. *Near Peer Ultrasound Education Evaluation*. Suranaree University of Technology International Conference on Science and Technology (Virtual). Nakhon-Ratchasima, Thailand. August 06, 2021.
6. Miller, C., **Weindruch, L.,** Gibson, J. *Near Peer Ultrasound Education Evaluation*. Rural Training Track Collaborative Annual Meeting (Virtual). Athens, OH, USA. April 09, 2021.
7. **Weindruch, L.** *The Visualization of OXIR Using Immunofluorescence*. IFE Program Dissertation. Paris, France. December 17, 2015.

## Poster Presentations

1. Miller, C., **Weindruch, L.,** Wyszynski, K., Gibson, J. *Ultrasound Microcredential: A Novel Method to Enhance Ultrasound Education*. JPS Research & Quality Symposium (Virtual). Fort Worth, TX, USA. June 03, 2022.
2. **Weindruch, L.,** Wyszynski, K., Gibson, J., Krishnagiri, A., Terlizzese, T., Do, T., Holley, B., Broadbent, D., Biggerstaff, M., *Demonstration of Ultrasound Competency for Hypertrophic Cardiac Abnormalities in Pediatric Patients*. JPS Research & Quality Symposium (Virtual). Fort Worth, TX, USA. June 03, 2022.
3. Miller, C., **Weindruch, L.,** Wyszynski, K., Gibson, J. *Ultrasound Microcredential: A Novel Method to Enhance Ultrasound Education*. American Association of Colleges of Osteopathic Medicine Annual Conference (Virtual). Denver, CO, USA. April 29, 2022.
4. Miller, C., **Weindruch, L.,** Gibson, J. *Near Peer Ultrasound Education Evaluation*. American Association of Colleges of Osteopathic Medicine Annual Conference (Virtual). Denver, CO, USA. April 29, 2022.
5. Terlizzese, T., Miller, C., **Weindruch, L.** *Creating a Novel 3D Printed Phantom to Stimulation Ultrasound-Guided Pericardiocentesis*. Texas College of Emergency Physicians Re-Connect 2022. Fort Worth, TX, USA. April 23, 2022.
6. Miller, C., **Weindruch, L.,** Wyszynski, K., Gibson, J. *Ultrasound Microcredential: A Novel Method to Enhance Ultrasound Education*. UNTHSC Research Appreciation Day (Virtual). Fort Worth, TX, USA. March 25, 2022.
7. **Weindruch, L.,** Wyszynski, K., Gibson, J., Krishnagiri, A., Terlizzese, T., Do, T., Holley, B., Broadbent, D., Biggerstaff, M., *Demonstration of Ultrasound Competency for Hypertrophic Cardiac Abnormalities in Pediatric Patients*. UNTHSC Research Appreciation Day (Virtual). Fort Worth, TX, USA. March 25, 2022.
8. Terlizzese, T., Miller, C., **Weindruch, L.** *Creating a Novel 3D Printed Phantom to Stimulation Ultrasound-Guided Pericardiocentesis*. UNTHSC Research Appreciation Day (Virtual). Fort Worth, TX, USA. March 25, 2022.
9. Miller, C., **Weindruch, L.,** Wyszynski, K., Gibson, J. *Ultrasound Microcredential: A Novel Method to Enhance Ultrasound Education*. American Institute of Ultrasound in Medicine 2022 Annual Meeting. San Diego, CA, USA. March 12, 2022.
10. **Weindruch, L.,** Wyszynski, K., Gibson, J., Krishnagiri, A., Terlizzese, T., Do, T., Holley, B., Broadbent, D., Biggerstaff, M., *Demonstration of Ultrasound Competency for Hypertrophic Cardiac Abnormalities in Pediatric Patients*. American Institute of Ultrasound in Medicine 2022 Annual Meeting. San Diego, CA, USA. March 12, 2022.
11. Miller, C., **Weindruch, L.,** Gibson, J. *Near Peer Ultrasound Education Evaluation*. American Academy of Family Physicians Global Health Summit (Virtual). Leawood, KS, USA. October 22, 2021.
12. Miller, C., **Weindruch, L.,** Gibson, J. *Near Peer Ultrasound Education Evaluation*. Family Medicine Experience (FMX) American Academy of Family Physicians Conference (Virtual). Leawood, KS, USA. October 02, 2021.
13. Miller, C., **Weindruch, L.,** Gibson, J. *Near Peer Ultrasound Education Evaluation*. Inteleos POCUS World Virtual Conference (Virtual). Rockville, MD, USA. September 17, 2021.
14. Miller, C., **Weindruch, L.,** Gibson, J. *Near Peer Ultrasound Education Evaluation*. John Peter Smith Research and Quality Symposium (Virtual). Fort Worth, TX, USA. May 04, 2021.
15. **Weindruch, L.,** Huettner, N., Selby, S. *Scholarly Review of Case Study: “Recovery of a 16-Year-Old Girl from Trauma and Burns after a Car Accident”*. UNTHSC Research Appreciation Day (Virtual). Fort Worth, TX, USA. March 22, 2021.
16. Miller, C., **Weindruch, L.,** Gibson, J. *Near Peer Ultrasound Education Evaluation*. UNTHSC Research Appreciation Day (Virtual). Fort Worth, TX, USA. March 22, 2021.
17. **Weindruch, L.,** Mani, R. *Understanding the Role of NUDT1 and Oxidative Stress in Prostate Cancer Progression*. UT Southwestern Summer Research Poster Presentation. Dallas, TX, USA. August 12, 2016.

## Peer-Reviewed Journal Articles

Miller C., Weindruch L., Gibson J. *Near Peer POCUS Education Evaluation*. POCUS J. 2022 Apr 21;7(1):166-170. doi: 10.24908/pocus.v7i1.15019. PMID: 36896277; PMCID: PMC9979912.

## Online Publications

Bly, C., Goehring, L., Ibrahim, M., Van Yperen, A., Holley, B., Burgon, M., Helton, B., Ngo, W., Krishnagiri, A., Melhart, A., Grieb, G., Terlizzese, T., Reagor, C., Tandon, S., Banh, D., Burrows, J.L., Jackson, G., Jain, K., Malla, T., Morkos, M., Moton. *Point-of-Care Ultrasound Casebook for Medical Students*. <https://books.apple.com/us/book/point-of-care-ultrasound-casebook-for-medical-students/id6443430950/>. September 19, 2022.

Weindruch, L., Terlizzese, T., & Miller, C. (2022, July 11). *Creating a Novel 3D-Printed Phantom to Simulate Ultrasound-Guided Pericardiocentesis*. <https://www.aaem.org/get-involved/sections/eus/newsletter/summer-2022#originalresearch>. July 11, 2022.

Weindruch, L. *Don't forget the socks and shoes: a reflection on the third year of medical school*. <https://www.kevinmd.com/2022/03/dont-forget-the-socks-and-shoes-a-reflection-on-the-third-year-of-medical-school.html>. February 21, 2022.

Miller, C., & Weindruch, L. *Providing Early Access to POCUS*. <https://www.pocus.org/providing-early-access-to-pocus/>. November 02, 2021.

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## RELEVANT EMPLOYMENT

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### UNTHSC Center for Academic Performance

Fort Worth, TX

Peer Tutor

October 2020 – December 2022

- Selected to lead both one-on-one and large group tutoring sessions for TCOM students and UNTHSC graduate students in courses such as biochemistry, nervous system, and renal physiology

### PhysAssist Scribes, Parkland Memorial Hospital

Dallas, TX

Medical Scribe

September 2017 – May 2019

- Worked alongside providers to input patient information into electronic medical records in real time and improve workflow in the Emergency Department, Psychiatric Emergency Department, and Urgent Care Center
- Selected to train new members and lead orientation sessions
- Planned several team building activities and community service projects as the team's Events Coordinator

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## VOLUNTEER ACTIVITIES

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Cowtown Marathon Medical Volunteer

February 2020, February 2022

TCOM Volunteer Health Clinics

July 2019-May 2021

- Spent approximately 20 hours providing medical services with the Refugee Health Initiative Clinic, Pediatric Mobile Clinic, and Cornerstone Free Clinic

EMIG "Feed the JPS ED" Fundraiser

April-August 2020

- Raised over \$1000 to deliver meals to the ED during the COVID-19 pandemic

Tarrant County COVID-19 Hotline Volunteer

April-June 2020

- Spent approximately 40 hours answering questions and providing resources over the phone

Texas Rural Health Association West Texas Mission Trip

March 2020

- Spent approximately 30 hours providing medical services around underserved areas of West Texas

Texas Two-Step CPR Volunteer

February 2020

Tutor for the Texas Academy of Biomedical Sciences

November 2019-February 2020

Stop the Bleed/Lone Star Survival Tourniquet Training Volunteer

September 2019

The Stewpot/Bridge Homeless Recovery Center Volunteer

February 2018-May 2019

- Volunteered once a week to serve breakfast and engage with residents

Patient Companion at Faith Presbyterian Hospice

July 2017-May 2019

- Visited with patients and families once a week and assisted with administrative tasks, such as delivering mail and flowers

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## TRAININGS AND CERTIFICATIONS

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Neonatal Resuscitation Program (NRP)	July 2023
Pediatric Advanced Life Support (PALS)	July 2023
Advanced Trauma Life Support (ATLS)	July 2023
Advanced Cardiac Life Support (ACLS)	June 2023
Basic Cardiac Life Support (BLS)	June 2023
IHI Certified Professional in Patient Safety	August 2021
UNTHSC Point-of-Care Ultrasound Microcredential, Primary Care	November 2021
UNTHSC Point-of-Care Ultrasound Microcredential, EM/IM/Critical Care	January 2022