

Jacob Altholz, MD

EDUCATION

Nellis Air Force Base, Mike O'Callaghan Military Medical Center/Kirk Kerkorian School of Medicine at University of Las Vegas 2021 – Present

Residency in Emergency Medicine
Class of 2024

F. Edward Hébert School of Medicine 2017 – 2021
Uniformed Services University

Doctor of Medicine (M.D.)
Class of 2021

George Mason University/Hong Kong University 2016
Study Abroad via The Fund for American Studies
Asia Institute for Political Economy

University of Colorado, Denver/Anschutz 2012 – 2017
Bachelor of Science (B.S.), Bioengineering with Honors/University Honors
Minors: Economics/Multi-Disciplinary Research Methods

AWARDS

Uniformed Services University of the Health Sciences

Humanitarian Service Ribbon May 2021
Association of Military Surgeons of the United States (AMSUS) Award May 2021
ACEP Medical Student Professionalism and Service Award May 2021
USUHS Medal of Achievement Feb 2020
Golden Humanism Honor Society Inductee Feb 2020

University of Colorado, Denver

Undergraduate Peer Leader of the Year, Department of Bioengineering May 2017
Bioengineering Undergraduate of the Year May 2017
Achievement Rewards of College Scientists (ARCS) Scholar Fall 2014 – Spring 2017
Virginia T. Schuman Scholar Fall 2014 – Spring 2017

PROFESSIONAL DEVELOPMENT

National Aeronautics and Space Administration (NASA)

Aerospace Medicine Clerkship Participant Apr 2023

Four-week intensive course including formal didactic sessions, tours, and familiarization with facilities at Johnson Space Center, and longitudinal research project presented to Space Medicine Operations community.

Emergency Medicine Residents' Association (EMRA)/American College of Emergency Physicians (ACEP)
EMRA and ACEP Health Policy Academy

Health Policy Fellow Jan 2022 – Dec 2023

Activities in both EMRA and ACEP to include didactic sessions, authoring policy, and participating in various levels of EMRA/ACEP policy activities to include Reference Committees and Board Resolution Submissions.

*Uniformed Services University***Healer's Art**

Fifteen-hour course derived from Dr. Rachel Remen's curriculum.

Spring 2018

PROFESSIONAL SERVICE*National**American Medical Association (AMA)*

House of Delegates

Delegate for RFS

Fully voting member in the House of Delegates, elected by peers.

Nov 2022 – Present

Residents and Fellow Section (RFS)

Committee on Legislation & Advocacy, Chair**Rules Committee Member****Delegate****Credentialing Committee Member, Chair****Reference Committee A Co-Chair**

Aug 2023 – Present

Jun 2022, 2023

Jun 2023

Jun 2023

Jun 2023

*Emergency Medicine Residents' Association (EMRA)***Bylaws Committee Member****EMRA/ACEP Health Policy Fellowship Co-Director**

May 2023 – Present

Jan 2023 – Present

Representative Council

Procedure Committee Representative Member**Program Representative****Reference Committee Chair**

Jun 2023 – Present

Oct 2022 – Present

Mar 2022

*American College of Emergency Physicians (ACEP)***Nevada ACEP Board of Directors (NVACEP) Resident Member**

Represent residents to NVACEP and represent Nevada to ACEP/Congress.

Jan 2022 – Present

Government Services Chapter PR/Advocacy Committee Member

Advise regarding policy as it relates to the chapter. Collect, write, and prepare content for the GSACEP seasonal newsletter to all members.

May 2021 – Present

ACEP Council

Delegate (Nevada)**Alternate Delegate (EMRA)**

Vote/participate in the policy-making body of ACEP

Oct 2023

Oct 2022

*Gold Humanism Honor Society***Humanism in Action Committee Member**

Committee dedicated to furthering compassionate care on a national level

Oct 2022 – May 2023

Association of American Medical Colleges (AAMC)

Organization of Student Representatives (OSR)

National Delegate for Medical Education**Northeastern Regional Chair**

Represent all students specifically regarding medical education to the AAMC and oversee the medical education student committee.

Nov 2018 – Nov 2020

May 2020 – Nov 2020

M3/M4 COVID Work Group Member Apr 2020 – Nov 2020
Represent M3 and M4 students during the COVID pandemic.

Group on Educational Affairs (GEA) Undergraduate Medical Education (UME) Steering Committee Member Mar 2019 – Nov 2020
Represent students on the committee dedicated to undergraduate academic medicine. Member of First-Generation Student Toolkit Subcommittee.

Local

Kirk Kerkorian School of Medicine at the University of Las Vegas

Department of Emergency Medicine

Chief Resident

Appointed Chief, specifically regarding administration/scheduling. Highly involved position of coordination/direction and representing residents.

Mar 2023 – Present

Golden Humanism Honor Society/Outreach Committee Resident Member Fall 2021 – Present
First active resident member and founder of resident initiative. Leading the development of a Resident Chapter and advising the student members in tandem with the Faculty Sponsors and coordinating cross-hospital outreach efforts.

EM Diversity, Inclusion, and Equity/Outreach Committee Member/Chair Fall 2021 – Present
Firstly member, subsequently chair of the committee coordinating outreach efforts for the EM residency to include coordination with local non-profits. Leading curriculum and lecture series regarding health disparities and medical justice.

Nevada Clinicians for Climate Action

Founding Member

Represent clinicians concerned about health effects of climate change to local/state government in addition to coordination with other advocates.

Mar 2023 – Present

Uniformed Services University

Executive Curriculum Committee Member

Student representative on core curriculum committee overseeing six subcommittees.

May 2020 – May 2021

Student Advisory Committee Member

Represent the medical students of the School of Medicine to the Dean and President.

Oct 2017 – May 2021

Student Government

Academic Representative

Extremely involved position. Served as liaison and advocate for class in all academic concerns to faculty and administration.

Oct 2017 – May 2021

Advisor to the Chair for Pre-Clerkship Dean Selection Committee

2020

Pre-Clerkship Curriculum Committee Member

Represented students on curriculum development/assessment team dedicated to the pre-clerkship timeframe.

Oct 2017 – Dec 2018

USUHS Air Force Squadron Element Leader

Oversaw five Air Force colleagues for accountability and standards.

Oct 2017 – Dec 2018

*University of Colorado, Denver/Anschutz***ABED Accreditation Committee Alumni Member**

Engineering accreditation committee of all stakeholder groups.

Fall 2017 – Present

TEACHING EXPERIENCE*University of Colorado, Denver/Anschutz***Organic Chemistry Laboratory I & II Teaching Assistant**

Taught, coordinated, and maintained entire lab sections independently and administered all grades therein; 1-2 sections per semester, 7 hours per week per section, 20 learners per section.

Fall 2015 – Spring 2017

Excel Learning Center

All Subjects

Teacher/Tutor

Tutored and taught summer classes for all high school major sciences, mathematics, and English classes. 3 hours per session, 3 sessions a week. Summer classes may include up to 20 students, full courses including biology, chemistry, calculus, and ACT/SAT preparation, 5 days a week for 6 hours.

Fall 2012 – Spring 2017

RESEARCH EXPERIENCE*National Aeronautics and Space Administration (NASA)*

Space Medicine Operations

Researcher – Spaceflight-Associated Neuro-ocular Syndrome Coalition

Examine the effect of spaceflight on visual refractive error and Spaceflight-Associated Neuro-ocular Syndrome (SANS), working to comprehensively analyze available astronaut data and elucidate possible mechanisms

- Mentors: Dr. Tyson Brunsetter; manuscript in writing.

Apr 2023 – Present

Uniformed Services University

STudent Omnibus Military Physician Survey (STOMPS)

Investigator

Examine the current attitude, practice, and culture of military physicians regarding the ethical identity conflict arising from dual agency of the medical and military professions

- Mentors: Dr. Francesca Cimino

Spring 2020 – Spring 2021

Long-Term Career Outcomes Study

Research Assistant

Organized and conducted research relating to the long-term trajectory of medical students from the military medical school in Bethesda, MD; specifically researched the concept of grit within medical students including longitudinal measurement among four classes and statistical analysis therein.

- Mentors: Dr. Ting Dong, Dr. Steve Durning; research published

Fall 2018 – Fall 2020

Investigator

Fall 2017 – Fall 2020

Organized, designed, and conducted a novel learner feedback method that prioritizes student consensus; compiled and presented reports of the results of said method to relevant leadership, administration, and committees; described the method in poster sessions and am working to publish the method for broader use in the academic community.

- Mentor: Dr. Holly Meyer

New York University

Department of Neuroscience

Research Assistant – Pelli Lab

May 2015 – Aug 2015

Researched the psychophysics of vision including object recognition, crowding, and visual noise; researched the fundamental aspects of awe and pleasure as it related to personally-identified beauty; funded by a Summer Undergraduate Research Grant by the NSF.

University of Colorado, Denver/Anschutz

Department of Cardiothoracic Surgery

Research Assistant – Hunter Lab

Aug 2015 – May 2017

Managed mechanical testing lab - performed mechanical tests on soft tissue; trained students to use testing equipment; kept lab supplies at appropriate levels; worked with Biosafety to remove lab wastes. Lab worked with human, cow, and rat arterial tissues to improve understanding of how vascular stiffness changes with vascular disease.

Department of Bioengineering

Lab Manager/Junior & Senior Design

Jan 2016 – May 2017

Assisted in the development of the design, documentation, and protocols related to an open-source 3D bioprinter; managed and maintained cell and tissue engineering teaching/research lab; managed and maintained 3D printing laboratory.

Senior Engineering Project: "3D Printing of Cell-laden Cross-linked Collagen Scaffolds"

Department of Bioengineering

Research Assistant – Weir Lab

Mar 2014 – Dec 2015

Researched and designed improvements upon upper-extremity robotic prostheses via rapid prototyping; utilized 3D printing in plastic and various metals to assess these designs.

- Research Published

CONFERENCE PRESENTATIONS/POSTERS*National*

1. **Altholz J.** *How to Write a Resolution.* Presentation at ACEP's Leadership and Advocacy Conference. Washington D.C. May 2023.
2. **Altholz J.,** Beltran N, Domanski K., Mannina L., Sanson T. *Creating a Climate of Inclusiveness.* Panel presentation at ACOEP Scientific Assembly. Las Vegas, NV. Oct. 2022.
3. **Altholz J.** *Learners Leading Learners: The Student Programming Showcase.* Session Presentation Accepted at Learn, Serve, Lead: The AAMC Annual Meeting. Washington D.C. Nov 2020. (Conference held virtually; session cancelled.)

4. Mason HRC, **Altholz J**, Buchanan A, Casillas A, Coplit L, Nguyen M, Sapp V, Uchida T. *Promoting first generation college graduate success in medical school: An online toolkit of resources*. Session Presentation Accepted at Learn, Serve, Lead: The AAMC Annual Meeting. Washington D.C. Nov 2020. (Conference held virtually; session changed to poster.)
5. **Altholz J**, Barron T, Charny G. *Constipation as a Chief Complaint for Primary Myelofibrosis in a Young, Active-Duty Patient*. Poster Presentation Accepted at the Joint Services Symposium on Emergency Medicine. San Antonio, TX. Sep 2020. (Conference moved to virtual format.)
6. Uchida T, Sapp VT, Nguyen M, Mason HRC, Coplit L, Casillas A, Buchanan A, **Altholz J**. *Promoting first generation college graduate success in medical school: An online toolkit of resources*. Workshop Presentation Accepted for International Association of Medical Science Educators Annual Meeting. Denver, CO. Jun 2020. (Conference canceled; poster presented online.)
7. Mason HRC, Nguyen M, **Altholz J**, Casillas A, Buchanan A, Coplit L, Sapp V, Uchida T. *Promoting first generation college graduate success in medical school: An online toolkit of resources*. Workshop Poster Accepted for AAMC: Group on Diversity and Inclusion Professional Development Conference. Miami, FL. May 2020. (Conference canceled.)
8. Ursua F, **Altholz J**, Durning S, Torre D, Dong T. *Once in the Door, Grit May Matter More: An Evaluation of Grit in Medical Students*. Paper Presentation at the American Educational Research Association Annual Meeting. San Francisco, CA. Apr 2020. (Conference canceled.)
9. Mason H, **Altholz J**, Buchanan A, Casillas A, Coplit L, Nguyen M, Sapp V, Uchida T. *Promoting first generation college graduate success in medical school: An online toolkit of resources*. Workshop Poster Accepted for AAMC: GSA/CiM/OSR Professional Development Conference. Chicago, IL. Mar 2020. (Conference canceled.)
10. **Altholz J**. *Learners Leading Learners: The Student Programming Showcase*. Session Presentation at Learn, Serve, Lead: The AAMC Annual Meeting. Phoenix, AZ. Nov 2019.
11. **Altholz J**, Naha U, Witt A. (All presenters contributed equally.) *Transition to Residency: Director's Perspective*. Workshop Presentation at Learn, Serve, Lead: The AAMC Annual Meeting. Nov 2019.
12. **Altholz J**, Meyer E, Meyer H. *"Racking and Stacking Course Evaluations: An easy-to-use collaborative approach that hones in on student consensus."* Poster Presentation at Learn, Serve, Lead: The AAMC Annual Meeting. Austin, TX. Nov 2018.
13. *Liberty and Equality Seminar*. Invited Participant. Socratic conference which invited and financially supported previous TFAS participants to Washington D.C. Feb 2017.

Regional

1. **Altholz J**. *Sexual and Gender Minority Health in the Emergency Department*. Presentation at the Southwest Regional Emergency Medicine Conference. Las Vegas, NV. Jan 2023.
2. Mason HRC, **Altholz J**, Coplit L, Nguyen M, Sapp VT. *Promoting first generation college graduate success in medical school: An online toolkit of resources*. Workshop Presentation Accepted for AAMC: Northeast Group on Educational Affairs Conference. Burlington, VT. Apr 2020. (Conference canceled.)
3. **Altholz J**, Meyer E, Meyer H. *Racking and Stacking Course Evaluations: An easy-to-use collaborative approach that hones in on student consensus*. Poster Presentation at AAMC NEGSA/NEOSR Regional Conference. Boston, MA. Apr 2019.

Local

1. **Altholz J**, et al. *Effect of Spaceflight on Refractive Error & Axial Length: Implications for Spaceflight Associated Neuro-Ocular Syndrome (SANS)*. Poster Presentation at Aerospace Medicine Clerkship Open Forum Poster Presentations. Johnson Space Center, Houston, TX. Apr 2023.
2. **Altholz J**, Leovy J. *Transportation Emissions and Our Health*. Presentation to Clean Cities Coalition of Las Vegas. Las Vegas, NV. Mar 2022.
3. **Altholz J**, Leovy J. *Heat and Our Health*. Presentation to Sierra Club of Las Vegas. Las Vegas, NV. Feb 2022.

4. **Altholz J.** *How distance modulates the effect of noise on letter recognition.* Presentation at the Symposium of the Summer Undergraduate Research Program of the Center for Neural Science. New York City, NY. Jul 2015.
5. **Altholz J,** Blauch N. *Using noise to study letter identification: Evidence for four types of spatial interaction.* Poster Presentation at NYU Diversity Conference. New York City, NY. Jul 2015.
6. **Altholz J,** Huddle S, Weir R. *Development of a Clutch Mechanism to Combat Prosthetic Backdrivability.* Poster Presentation at CU Denver: Research and Creative Activities Symposium. Denver, Colorado. Apr 2015.

PEER-REVIEWED PUBLICATIONS

1. **Altholz J.** (Aug 2023) PEN-FAST 2.0 – Directly Testing for PCN Allergy – The PALACE RCT. Blogpost on *JournalFeed*. <https://journalfeed.org/article-a-day/2023/pen-fast-2-0-directly-testing-for-pcn-allergy-the-palace-rct/>
2. **Altholz J.** (Oct 2022) Quality Versus Comfort: Does Tegaderm Get in the Way of Ocular Ultrasound? Blogpost on *JournalFeed*. <https://journalfeed.org/article-a-day/2022/quality-versus-comfort-does-tegaderm-get-in-the-way-of-ocular-ultrasound/>
3. **Altholz J.** (Sept 2022) Raising the Bar on Neonatal Hyperbilirubinemia Care. Blogpost on *JournalFeed*. <https://journalfeed.org/article-a-day/2022/raising-the-bar-on-neonatal-hyperbilirubinemia-care/>
4. Ursua, F, **Altholz J,** Durning SJ, Torre D, Schreiber-Gregory D, Dong T. (2020). Once in the Door, Grit May Matter More: An Evaluation of Grit in Medical Students. *Military Medicine*. <https://doi.org/10.1093/milmed/usaa297>
5. Chan A, **Altholz J,** Weir R, Davidson M. (2020). A Novel Nickel-Titanium Actuator in a Prosthetic Motor Clutch. Accepted to *Journal of Young Investigators*, 38(3), 18-23. <https://doi.org/10.22186/jyi.38.3.18-23>

OTHER PUBLICATIONS/PODCASTS

1. **Altholz J,** Huang E, Schafer, J. (2023) Chapter 10: “New” Methods to Control Health Care Costs. In: *Emergency Medicine Advocacy Handbook*. 6th edition.
2. **Altholz J.** (2023) Spotlight on: Health Policy Academy Fellow Jacob Altholz, MD. *EMResident*. <https://www.emra.org/emresident/article/health-policy-academy-fellow-jacob-altholz>
3. **Altholz J,** (2022) Reflections from the ACEP 2022 Leadership & Advocacy Conference. *ACEPNow*. <https://www.acepnow.com/article/acep-2022-leadership-advocacy-conference/3/>
4. **Altholz J,** Stanton R. (2022) Guest on Podcast *ACEP Now: Stop... Advocate and Listen - The ACEP LAC Experience*. <https://soundcloud.com/acep-frontline/acep-frontline-stop-advocate-and-listen-the-lac-experience>
5. Coplit L, **Altholz J.** (2020) Learning Environment Resources within First-Generation College Graduates in Medical School Toolkit of Resources for Medical Schools. *Association of American Medical Colleges*. Student Link: <https://www.aamc.org/professional-development/affinity-groups/gea/first-generation-students> Advisor Link: <https://www.aamc.org/professional-development/affinity-groups/gea/advisors-first-generation-medical-school-students>
6. **Altholz J.** (2020) Novel: A Short Story. *Progress Notes*. <http://progressnotesjournal.wixsite.com/home>

TRAININGS/CERTIFICATIONS

Basic Life Support (BLS)
 Advanced Life Support (ALS)
 Advanced Trauma Life Support (ATLS)
 Aerospace Medicine Primary Course 101 – Jun 2018
 Healer’s Art – Spring 2018
 Commissioned Officer Training – Jul 2017

LANGUAGES

English – Native Language

Spanish – Speak, read, write with basic competence

MEMBERSHIPS

GLMA: Health Professionals Advancing LGBTQ Equality	2023 – Present
Association of Military Surgeons of the United States	2021 – Present
Gold Humanism Honor Society	2020 – Present
American College of Emergency Physicians	2020 – Present
Emergency Medicine Residents' Association	2020 – Present
American Medical Association	2019 – Present

COMMUNITY SERVICE

Event Medicine

Medical Tent Volunteer

Oct 2018 - Present

Volunteer at Electric Daisy Carnival (EDC), NFL/XFL football games/events at Allegiant Stadium, hockey games/events at T-Mobile stadium, the Army Ten Miler, and Marine Corps Marathon.

Clerkship & Step 2 Review Series

Team Leader/Peer Educator

Mar 2020 – May 2020

Organized and led a team of classmates to create an NBME Shelf/Step 2 CK review video series for current and future USUHS students during the unplanned interruption of clinical experiences due to COVID-19.

Transgender Medical School Curriculum

Peer Small Group Facilitator

Feb 2020

Facilitated a 6-student didactic session focused on educating learners about transgender medical care and transgender policies within the military.

Parker Adventist Hospital

Emergency Department Volunteer

Nov 2015 – May 2017

Volunteered 4-8hrs per week focused on patient-comfort in a Level II Emergency Department; restocked rooms, interacted with patients and families; helped coordinate care between hospital departments including radiology, chaplaincy, and medical wards.