

Leah Monique Backhus MD MPH FACS

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Personal Data:

Maiden Name:	Leah Monique Fuller
Place of Birth:	New Jersey, USA
Current Address:	19223 Harleigh Drive Saratoga, CA 95070

Current Positions:

07/01/2015-present	Associate Professor Department of Cardiothoracic Surgery Stanford University
07/01/2015-present	Section Chief Thoracic Surgery VA Palo Alto Health Care System

Previous Positions:

2009-2015	Assistant Professor	Department of Surgery Division of Cardiothoracic Surgery University of Washington
	Chief	Thoracic Surgery VA Puget Sound Healthcare System
	Staff Surgeon	Northwest Hospital

Residency:

2007-2009	Chief Resident	Cardiothoracic Surgery, Thoracic Track University of California Los Angeles Los Angeles, CA
2000-2007	Resident	General Surgery University of Southern California Los Angeles, CA

Education:

2012-2014	MPH	Health Services
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1996-2000	MD	School of Public Health University of Washington Keck School of Medicine University of Southern California
1991-1995	AB	Human Biology Stanford University

Research:

2016-present **Faculty Member**, Stanford-Surgery Policy Improvement Research & Education Center

2015-present **Co-Director**, Thoracic Surgery Clinical Research Program, Stanford University

2015-present **Center Investigator**, VA Palo Alto Health Services Research & Development

2012-2015 **Scholar**, Institute of Translational Health Science, University of Washington

2011-2015 **Principal Investigator**, VA Puget Sound Healthcare System Lung Cancer Tissue and Blood Repository

2003-2005 **Research Fellow**, Department of Cardiothoracic Surgery, Keck School of Medicine, University of Southern California

1998 **Research Associate**, Department of Surgery, Keck School of Medicine, University of Southern California

1996 **Research Associate**, Department of Neurosurgery, Keck School of Medicine, University of Southern California

1992-1995 **Research Assistant**, Department of Molecular Pharmacology, Stanford University

Board Certification:

American Board of Surgery Certificate # 052964 1/28/2008, Recertified 12/31/2019, 09/22/2020

American Board of Thoracic Surgery Certificate # 7631 6/11/2010, Recertified 12/4/2020

Licensure:

California State Medical Board A77191 (Active)

Washington State Medical Board MD60097561 (Inactive)

Professional Memberships:

American Association for Thoracic Surgery

Society of Thoracic Surgeons

American College of Surgeons, Fellow

Society of University Surgeons

American Society of Clinical Oncology

International Association for the Study of Lung Cancer

International Thymic Malignancy Interest Group

Women in Thoracic Surgery

Society of Black Academic Surgeons

American Medical Association

Association of Women Surgeons

Henry N. Harkins Surgical Society

International Professional Committees:

European Society of Thoracic Surgeons

2020-present **Member**

2020-present **Core Member**, Women in General Thoracic Surgery Committee

International Association for the Study of Lung Cancer

2020-present **Member**, Women in Thoracic Oncology

2018-2023 **Member**, Membership Committee

European Lung Cancer Congress (European Society for Medical Oncology and International Association for the Study of Lung Cancer)

2021-2022 **Member**, Scientific Committee

National Professional Committees:

National Institutes of Health: National Cancer Institute

2021-present **Faculty Member**, Division of Cancer Control and Population Sciences Planning Committee for workshop Issues in Evidence for Post-Treatment Surveillance Strategies for lung Cancer

American Association for Thoracic Surgery

2022-2023 **Member**, AATS Women in Cardiothoracic Leadership Task Force

2021-2022 **Member**, Writing Group Thoracic: Early Lung Cancer

2021-2024 **Member**, Equity & Career Development Scholarship Committee, **AATS Foundation**

2020-2023 **Member**, Thoracic Surgery Scholarship Committee

2019-2023 **Member**, Membership Recruitment, Engagement and Diversity Committee

Society of Thoracic Surgeons

2019-present **Director-at-Large**, Board of Directors

2021-2024 **Member**, Standards and Ethics Committee

2019-2023 **Member**, Workforce on Diversity and Inclusion

2019-2023 **Ex-officio Member**, Council on Health Policy and Relationships Operating Board

2020-2022 **Faculty Member/Organizer**, STS Leadership Institute

2020-2022 **Member**, Virtual Meeting Task Force

2019-2022 **Member**, Workforce on Thoracic Surgery Resident Issues

2018-2024 **Member**, Workforce on Health Policy, Reform, and Advocacy

2017-2019 **Member**, Task Force on Diversity and Inclusion

2012-2017 **Member**, Membership Committee

2012-2017 **Member**, Media Relations Committee

2013-2015 **Co-Chair**, Workforce on Annual Meeting Surgical Symposia Taskforce

Thoracic Surgery Foundation

2021-present **Member**, Research Awards Committee

American College of Surgeons

2022 **Abstract Reviewer**, Annual Meeting Program Committee
2021 **Abstract Reviewer**, Annual Meeting Program Committee
2020 **Abstract Reviewer**, Annual Meeting Program Committee

Western Thoracic Surgical Association

2016-2019 **Member**, Annual Meeting Program Committee
2017-2018 **Chair**, Annual Meeting Program Committee
2014-2016 **Member**, Membership Committee
2014-2015 **Chair**, Local Arrangements Committee

Women in Thoracic Surgery

2019-2022 **Secretary/Treasurer**, Board of Directors
2014-2019 **Director-at-Large**, Board of Directors

Accreditation Council for Graduate Medical Education

2022-2022 **Board Member**, Taskforce on Diversity
2019-2022 **Chair**, Thoracic Surgery Review Committee
2018-2019 **Vice-Chair**, Thoracic Surgery Review Committee
2016-2018 **Member**, Thoracic Surgery Review Committee

Society of University Surgeons

2021-2024 **Member**, Membership Committee

National Lung Cancer Roundtable of the American Cancer Society

2018-present **Chair of the Lung Cancer in Women Task Group**

The NLCRT is a collaboration of public, private and voluntary organizations who play a key role in reducing the incidence of and mortality from lung cancer. The NLCRT will more rapidly advance lung cancer control through efforts to increase public and professional education, prevention and early detection, quality assurance, access to care, effective health policy, and optimal diagnosis and treatment for cancer patients. The Lung Cancer in Women Task Group will focus on acknowledging that lung cancer is a women's health imperative, and its disparate impact on women to devise public health awareness campaigns specific to women emphasizing the importance of early detection.

Surgical Outcomes Club

2019-present **Member**

Patient Centered Outcomes Research Institute:

2016-2019 **Member**, Health Delivery and Disparities Research Advisory Panel

American Society of Clinical Oncology.

2016-2019 **Member**, Annual Program Committee Thoracic Tract

Society of Black Academic Surgeons

2016-2020 **Member**, Annual Program Committee

Veterans Health Administration

2021-present **Clinical Champion**, National Oncology Program: National Esophageal Oncology Pathways Team

2020-2021 **Clinical Champion**, National Oncology Program: National Lung Oncology Pathways Team

Local Committee Membership/Service to the University:

2021-present **Wellness Director**, Stanford Department of Cardiothoracic Surgery

2021 **Panelist**; Stanford Department of Radiology Justice, Diversity, Equity, and Inclusion Mentorship

2021-2023 **Medical Executive Committee Service Representative**; Stanford Healthcare

2021-present **Selection Committee Member** McCormick and Gabilan Faculty Awards; Stanford School of Medicine

2021-present **Faculty Advisory Board**; Stanford Center for Continuing Medical Education (SCCME) Faculty Leadership Development Certificate Program

2020-present **Steering Committee Member**; Stanford Black Faculty Affinity Meeting (BFAM)

2020-2023 **Member**; Stanford Healthcare Committee on Professionalism

2020 **Faculty Speaker**; *Medical Specialties and Subspecialties Workshop*; Stanford University Minority Medical Alliance (SUMMA) Annual Meeting

2018-present **Member**; Stanford Department of Cardiothoracic Surgery, Departmental Appointments and Promotions Committee

2016-2020 **Member**; Stanford Healthcare Health Information Management Committee

2016-2018 **Member**; Stanford Women and Sex Differences in Medicine (WSDM)

2013-2015 UW Department of Surgery Diversity Council

2012-2015 Center for Equity Diversity and Inclusion Executive Steering Committee

2013-2015 Executive Board Member; UW Committee on Minority Faculty Affairs

2009-2015 UW School of Medicine Committee on Women

2009-2015 VA Puget Sound Healthcare System Operating Room Committee

2009-2015 VA Puget Sound Healthcare System Physician Utilization Management Committee

2009-2015 UW School of Medicine African American Mentoring Network

2009-2013 Chair; UW Committee on Minority Faculty Affairs

2009-2011 UW School of Medicine Medical School Admissions Committee

2009-2011 Sub-committee Chair; UW School of Medicine Dean's Diversity Strategic Planning Committee

Awards/Honors:

2019 Thoracic Surgery Foundation Levi Watkins Innovation and Leadership Development Scholarship

2019 Thoracic Surgery Residents Association (TSRA) McGoon Teaching Award

2018 Alpha Omega Alpha Medical Honor Society Faculty Inductee

2017 Stanford Dean's Leadership Development Program Awardee

- 2012 Superior Performance Award, for exemplary performance and dedication to the VA Puget Sound Health Care System
- 2011 AAMC Early Career Women Faculty Career Development, Recipient
- 2010 Society of Black Academic Surgeons Leadership Council Award
- 2010 AAMC Minority Faculty Development Program, Recipient
- 2009 AATS Resident Traveling Fellowship Award Recipient
- 2008 Peter C. Pairolero Resident Scholarship Award Recipient, General Thoracic Surgery Club
- 2005 Society of Black Academic Surgeons Leadership Council Award
- 2001 Annual Resident Teaching Award, Department of Surgery, University of Southern California
- 2000 Sagar Gupta, MD Memorial Scholarship Award, University of Southern California
- 1996 Gerber Scholarship, University of Southern California

Teaching:

- 2021 *Stanford Cardiothoracic Surgical Skills Summer Internship* Invited Speaker
Stanford School of Medicine, Stanford, CA
- 2018-2021 Ethnicity in Medicine: *Vulnerable populations underappreciated in the fight against lung cancer*; Stanford University; Department of Human Biology, Stanford, CA
- 2018-2021 *Service through Surgery Conversation*; Stanford School of Medicine, Stanford, CA
- 2018 Stanford Summer Community College Premedical Program: *Health Disparities in Lung Cancer*; Center of Excellence in Diversity in Medical Education Stanford School of Medicine, Stanford, CA
- 2016 Stanford Emergency Department Thoracic Surgery Clinical Practicum
- 2015-present Associate Program Director; Stanford University CT Surgery Residency Program, Thoracic Track
- 2014-2015 Site Director: UW CT Surgery Residency Program
- 2013-2015 Contributor; TSDA On-line Clinical Case Curricula
- 2013-2015 Mentor; UW School of Medicine; Underserved Pathway
- 2009-2015 Faculty Advisor; UW School of Medicine Student Surgical Interest Group;
- 2010 Faculty Advisor; UW School of Medicine; Introduction to Clinical Medicine: *Images of Physicians Series*
- 2003-2005 Clinical Instructor; USC Keck School of Medicine; Introduction to Clinical Medicine

Invited Lectures:

National/International

- 2022 *Role of Surgery in Oligometastatic Disease*; European Lung Cancer Congress, Prague, CZ
- 2022 *Moving Towards a patient-centered approach to Surveillance After treatment for Lung Cancer*; **Grand Rounds Lecture**; University of Colorado Department of Surgery, Denver, CO

- 2022 *Moving Towards a patient-centered approach to Surveillance After treatment for Lung Cancer; **Grand Rounds Lecture***; University of Washington Department of Surgery, Seattle, WA
- 2021 *Healthcare Disparities and Cardiothoracic Diversity in Europe; **ESTS 2021 Annual Meeting: Co-Moderator***; ESTS-EACTS Joint Session, Virtual Meeting
- 2021 *Unconscious Bias and Communication in the Operating Room; **AATS 2021 Annual Meeting***; Patient Safety Forum
- 2020 *Challenges in Post-Operative Surveillance for Early Stage Lung Cancer; **AATS Foundation Gardner Lectureship***; UC Davis Department of Surgery, Sacramento, CA
- 2019 *Challenges in Post-Operative Surveillance for Early Stage Lung Cancer; **UCLA Department of Surgery Grand Rounds***, Los Angeles, CA
- 2019 *Management of Subsolid Nodules (North Am perspective); **European Association for Cardiothoracic Surgery (EACTS) Annual Meeting***; Lisbon, Portugal
- 2019 *Women in Thoracic Surgery: US Perspective; In Co-Operation with Women In Thoracic Surgery; **Session Co-Chair; European Society of Thoracic Surgeons (ESTS) Annual Meeting***; Dublin, Ireland
- 2019 *Lung Cancer and Women, Gender Differences in Clinical Outcomes; **National Lung Cancer Roundtable 2019 Women and Lung Cancer Task Group Summit***; Atlanta, GA
- 2017 *Surveillance for Lung Cancer; **International Association for the Study of Lung Cancer (IASLC) 2017 Multidisciplinary Symposium in Thoracic Oncology***; Chicago, IL
- 2017 *Management of Pleural Disease; **American College of Surgeons Clinical Congress, Session Co-Moderator***; San Diego, CA
- 2017 *PCORI Grant Funding Process; **AATS Grant Writing Seminar***; Bethesda, MD
- 2016 *Pleural Disease; **Association of Physician Assistants in Cardiovascular Surgery***; Las Vegas, NV
- 2015 *Surveillance and Survivorship Care in Lung Cancer; **Thoracic Oncology Symposium sponsored by NCCN; Seattle Cancer Care Alliance***; UW Medicine; Seattle, WA
- 2013 *Surveillance and Survivorship Care in Lung Cancer; **Thoracic Oncology Symposium sponsored by NCCN, Seattle Cancer Care Alliance***; UW Medicine; Seattle, WA
- 2012 *New Lung Cancer Screening Guidelines; **Annual Conference on Advanced Practice in Primary & Acute Care***; Seattle, WA
- 2011 *Pulmonary Metastatic Disease; **Thoracic Surgery Directors Association National Curriculum Lecture***: ([http://www.tsda.org/sections/integrated_curriculum/TSDA Weekly Curricula](http://www.tsda.org/sections/integrated_curriculum/TSDA_Weekly_Curricula))
- 2011 *Pulmonary Metastasectomy; **Thoracic Surgery Directors Association National Curriculum Lecture***: ([http://www.tsda.org/sections/integrated_curriculum/TSDA Weekly Curricula](http://www.tsda.org/sections/integrated_curriculum/TSDA_Weekly_Curricula))

Regional/Local

- 2021 *WTSA Annual Meeting Controversies Debate: **Managing the Cardiothoracic Workforce During a Public Crisis: Repercussions for the Trainee***, Phoenix, AZ
- 2021 *USC Advancing Knowledge in Lung Cancer Care; **Challenges to Surveillance Following Treatment for Lung Cancer***; Los Angeles, CA

- 2021 Best of World Conference on Lung Cancer; International Association for the Study of Lung Cancer (IASLC): *Controversies in Locally Advanced NSCLC*; San Francisco, CA
- 2021 Stanford School of Medicine Office of Diversity in Medical Education (ODME) 4th Annual Diversity and Inclusion Forum; Plenary Speaker; *Academic Medicine Career Roles and Responsibility*; Stanford, CA
- 2021 University of California, San Diego Department of Surgery Grand Rounds: *Challenges in Post-Operative Surveillance for Early Stage Lung Cancer*; San Diego, CA
- 2021 Stanford University Minority Medical Alliance (SUMMA) Annual Conference: Medical Specialty Workshop
- 2020 University of California, Davis Visiting Faculty Scholar Departments of Surgery: *Current State of Surveillance and Survivorship Care in Lung Cancer*; Sacramento, CA
- 2019 WTSA Annual Meeting, Resident Symposium: *Tips for Professional and Personal Satisfaction*; Lake Tahoe, CA
- 2019 Moderator, WTSA Annual Meeting, Concurrent Forum: Thoracic Surgery: *Moderator*; Lake Tahoe, CA
- 2019 Moderator, Northern California Chapter of the American College of Surgeons (NCCACS) 2019 Annual Educational Meeting: *Diversity and Inclusion in Surgery –The Return on Investment*; Berkeley, CA.
- 2019 Northern California Chapter of the American College of Surgeons (NCCACS) 2019 Annual Educational Meeting: *Gender Inclusion and the Culture of Safety in Healthcare*; Berkeley, CA.
- 2019 UCLA Department of Surgery Grand Rounds Lecture Series; *Imaging Surveillance After Lung Cancer Treatment: Moving Towards Precision Medicine*; Los Angeles, CA
- 2018 Moderator, WTSA Annual Meeting, Resident Symposium; Santa Barbara, CA
- 2017 WTSA Annual Meeting, Resident Symposium: *Interview Preparation*; Colorado Springs, CO
- 2017 Cancer Education Seminar Series, Stanford University: *Surveillance and Survivorship in NSCLC*
- 2016 Early Riser Session, STS Annual Meeting: *Patient-Centered Care: Surveillance*
- 2016 Cancer Education Seminar Series, Stanford University: *Surveillance and Survivorship in NSCLC*
- 2015 VISN 20 Pulmonary SCAN Clinical Conference, VA Puget Sound: *Transition in Care Following Lung Cancer Treatment*
- 2015 Washington Thoracic Society 25th Annual Chest Conference and Winter Lung Day. *Lung Cancer Debate: Stage III Disease is a Surgical Disease*
- 2014 Oregon Health & Science University (OHSU) Visiting Faculty Scholar. The Departments of Radiation Medicine & Surgery: *Current State of Surveillance and Survivorship Care in Lung Cancer*
- 2014 VISN 20 Pulmonary SCAN Clinical Conference, VA Puget Sound: *Pre-Operative Evaluation Of The Patient Undergoing Lung Surgery*
- 2013 VISN 20 Pulmonary SCAN Clinical Conference, VA Puget Sound: *Surgical Management of COPD: Lung Volume Reduction Surgery*
- 2013 Pulmonary Educational Conference, VA Puget Sound: *Radiographic Evaluation of the patient with lung cancer: Surgical implications of imaging*
- 2012 Radiology Resident Lecture: *Radiographic Evaluation of the patient with lung cancer: Surgical implications of imaging*

- 2011 University of Washington Leadership Retreat: *“Dean’s Strategic Planning Committee on Minority Affairs: Subcommittee Report on Best Practices in Minority Faculty Development”*
- 2010 Society of Thoracic Surgeons: Resident Luncheon Invited Speaker
- 2010 PGY1 class (ISIS): *Thoracostomy Lecture and Practical*

Research Funding:

Current:

- 11/1/21-12/1/24 **Co-Investigator**
Single-cell Transcriptomic and Epigenetic Atlas of Multi-Ancestry Hearts;
(PI: Joseph Wu) Chan-Zuckerberg Initiative
- 10/1/21-9/30/22 **Principal Investigator**
Multimodal Intervention Strategies to Improve Lung Cancer Screening for Women Undergoing Breast Screening ; (PI: **Backhus**) Stanford Comprehensive Cancer Center Clinical Innovation Award
- 9/1/18-8/31/22 **Co-Principal Investigator**
“A Mechanistic Clinical Trial of JAK Inhibition to Prevent Ventilator-induced Diaphragm Dysfunction”; (PI: Shrager/**Backhus**) NIH: Skeletal Muscle Exercise Physiology Study Section (1 R01 HL148185-01)
- 12/1/18-12/31/23 **Principal Investigator**
“iSALT: Imaging Surveillance After Lung Cancer Treatment”; (PI: **Backhus**) VA HSR&D IIR Merit Award (HX002456-01A2)

Completed:

- 2016-2017 **Co-Investigator;** *“Use of Natural Language Processing and Machine Learning to Identify Newly Diagnosed and Recurrent Cases of Cancer in VHA EHR Records”* (PI: Zeliadt); VA HSR&D IIR
- 2015-2016 **Principal Investigator;** *“Pre-Operative Optimization Program to Improve Surgical Outcomes for Veterans”;* VA HSR&D Locally-Initiated Projects Award, Palo alto
- 2013-2016 **Co-Investigator;** *“A Novel Approach to measuring costs and efficiency: Lung nodules as a case study”* (PI: Zeliadt); VA HSR&D (IIR 12-065-3)
- 2012-2015 **KL2 Award Scholar;** NIH/NCATS National Center for Research Resources, 2 KL2 TR000423-07 KL2 ITHS Multidisciplinary Clinical Research Training Program
- 2012-2013 **Co-Investigator;** *“Barriers to Accessing Care for Outpatients Newly Diagnosed with Lung Cancer”* (PI: Reinke); VA Office of Nursing Services (ONS)
- 2012-2013 **Co-Investigator;** *“Palliative Care Interventions for Outpatient Veterans Newly Diagnosed with Lung Cancer”* (PI: Reinke); Nursing Research Initiative Grant; VA Office of Nursing Services (ONS)
- 2004-2005 Los Angeles Heart and Lung Foundation
- 2003-2004 Los Angeles Heart and Lung Foundation

Peer-Review: Grant Reviewer:

- 2021-present Charter Member Reviewer, NIH Imaging Guided Interventions and Surgery (IGIS) study section
- 2020 Ad hoc Reviewer, NIH Imaging Guided Interventions and Surgery (IGIS) Study section
- 2018-present **ad hoc Reviewer**, National Institutes of Health: Dissemination and Implementation Research in Health (DIRH) Study Section

Peer-Review: Journal Editing:

- 2022-present Deputy Editor, *JAMA Surgery*
- 2021 Guest Co-Editor. *JTD. Focused Issue: Women in Thoracic Surgery*. Vol 13, No 1

Peer-Review: Journal Reviewer:

- 2019-present Reviewer, *Advances in Health Care Management*
- 2016-present Reviewer, *Journal of the National Comprehensive Cancer Network*
- 2014-present Reviewer, *Journal of Thoracic and Cardiovascular Surgery*
- 2014-present Reviewer, *Annals of Thoracic Surgery*
- 2012-present Reviewer, *Diseases of the Esophagus*
- 2012-present Reviewer, *Journal of Heart and Lung Transplantation*
- 2011-present Reviewer, *Annals of Surgical Oncology*
- 2017-2019 Reviewer, Research Reports, *Patient-Centered Outcomes Research Institute*

Other/Community Service:

- 2020 Gender Barriers in Medicine Panel – Stanford School of Medicine; Sexual Harassment/Assault Response Education Title IX Office
- 2020 Speaker: Stanford's Health Career Collaborative - East Palo Alto Academy
- 2020 Speaker: Future Doctors and Nurses Club at LACES high school – Los Angeles, CA
- 2020 The Peninsula College Fund, Speaker/Mentor: Career Exploration Fair
- 2013-2015 VISN 20 Pulmonary SCAN (Specialty Care Access Networks – Extension for Community Healthcare Outcomes) Program, Role: Clinician Specialist
- 2011-2014 American College of Surgeons, Commission on Cancer Physician Liaison, VA Puget Sound Healthcare System
- 2011-2012 VA Puget Sound and VA Medical Center Spokane Lung Cancer Collaborative Project-Core Team Leader
- 2009-2015 Donate Life, Community Volunteer Lecturer

Mentoring:

- | | | | |
|--------------|--|-----------------|---------------------------|
| 2021-present | Ghazal Aghagoli | Medical Student | Brown University |
| | Scanlan/Women in Thoracic Surgery Traveling Mentorship Award | | |
| 2021-present | McKenna Schimmel | Medical Student | University of Vermont |
| | STS Mentorship Program (Medical Student) | | |
| 2021-present | Kelli Salter | Attending | Piedmont Atlanta Hospital |
| | STS Mentorship Program (Surgeon) | | |

2020-present	Irmia Elliott	Resident	Stanford, CT Surgery
2020-2021	Oseitohanmen Okhiulu	Undergraduate Student	Stanford University
	<i>Vice Provost for Undergraduate Education Undergraduate Research Major Grant; Research Advisor</i>		
2020-present	Catheryn Byrd	Research Fellow	Stanford, CT Surgery
	Thoracic Surgery Clinical Research Program		
2020-2020	Courtney Obasohan	Undergraduate Student	UCLA
	<i>Stanford Cardiovascular Institute's Undergraduate Summer Research Program</i>		
	NIH R25 grant (NHLBI - Short-Term Research Education Program to Increase Diversity in Health-Related Research)		
2019-present	Kiah Williams	Resident	Stanford, Cardiothoracic Surgery
2019-2020	Karen Gutierrez	Medical Student	Stanford School of Medicine
	<i>Leadership in Health Disparities Summer Program (LDHP)</i>		
	LDHP is a seven-week program offered to matriculating medical students during the summer quarter preceding the first year of medical school. It is directed at initiating a successful medical and leadership career focused on increasing student's knowledge of health disparities and the roles of physician leaders.		
2018-present	Ioana Baiu	Resident	Stanford, General Surgery
2018-present	Ashley Titan	Resident	Stanford, General Surgery
2015-2019	Elizabeth Colwell	Resident	Stanford, Cardiothoracic Surgery
2017-2018	Ashni Nadgauda	Medical Student	Case Western Reserve
2016-2018	Douglas Liou	Resident	Stanford, Cardiothoracic Surgery
2014-2015	Mentor, T32 UW CHASE Surgical Outcomes		<i>Post-Doctoral Training Program</i>
	Agency: NIH/NIDDK		Grant #: DK070555
	Project Period:		07/01/2010-06/30/2015
2013-2015	Neli Mottey	Medical Student	UW, Underserved Pathway
2012-2015	Edo Bedzra	Resident	UW Cardiothoracic Surgery
2013-2015	Estelle Williams	Resident	UW General Surgery
2010-2015	Lara Oyetunji	Resident	UW General Surgery
2012-2014	Nathan Mollberg	Resident	UW Cardiothoracic Surgery
2012-2013	Jonathan Sargent	Medical Student	UW Medical Student
			Research Training Program
2010-2012	Awori Hayanga	Faculty	Cardiothoracic Surgery, University of Pennsylvania

Bibliography:

Peer Reviewed: Original Research

In Press:

1. Byrd C, Ajawara U, Laundry R, Radin J, Bhandari P, Leung A, Han S, Asch A, Zeliadt S, Harris A, **Backhus L**. Performance of a semi-automated method to optimize chart abstraction for characterization of surveillance imaging among patients treated for non-small cell lung cancer. (in press)

Published:

1. Keshinro A, Butler P, Fayanju O, Khabele D, Newman E, Greene W, Ude Welcome A, Joseph KA, Stallion A, **Backhus L**, Frangos S, DiMaggio C, Berman R, Hasson R, Rodriguez LM, Stain S, Bukur M, Klein MJ, Henry-Tillman R, Barry L, Oseni T, Martin C, Johnson-Mann C, Smith R, Karpeh M, White C, Turner P, Pugh C, Hayes-Jordan A, Berry C Examination of Intersectionality and the Pipeline for Black Academic Surgeons. *JAMA Surg.* 2022 Feb 9. doi: 10.1001/jamasurg.2021.7430. Online ahead of print. PMID: 35138327
2. Pompili C, Opitz I, **Backhus L**, Leschber G, Verones G, Lauk O, Novoa N, Daddi N, Deglurkar I, Cleuziou J, Emrich A, D'Auria F, Kluin J. ESTS and EACTS Gender Bias Survey. *Eur J Cardiothorac Surg.* 2022 Jan 29;ezac034. doi: 10.1093/ejcts/ezac034. Online ahead of print. PMID: 35092281
3. Choi E, Luo SJ, Aredo JV, **Backhus LM**, Wilkens LR, Su CC, Neal JW, Le Marchand L, Cheng I, Wakelee HA, Han SS. The Survival Impact of Second Primary Lung Cancer in Patients with Lung Cancer. *J Natl Cancer Inst.* 2021 Dec 10:djab224. doi: 10.1093/jnci/djab224. PMID: 34893871
4. Patel DC, Bhandari P, Shrager JB, Berry MF, **Backhus LM**, Lui NS, Liou DZ. Perioperative Outcomes After Combined Esophagectomy and Lung Resection. *J Surg Res.* 2021 Nov 11;270:413-420. doi: 10.1016/j.jss.2021.09.037. Online ahead of print. PMID: 34775148
5. Shrager JB, Wang Y, Lee M, Nesbit S, Trope W, Konsker H, Fatodu E, Berry MS, Poulstides G, Norton J, Burdon T, **Backhus L**, Cooke R, Tang H. Rationale and design of a mechanistic clinical trial of JAK inhibition to prevent ventilator-induced diaphragm dysfunction. *Respir Med.* 2021 Nov-Dec;189:106620. doi: 10.1016/j.rmed.2021.106620. Epub 2021 Sep 21. PMID: 34655959
6. Erwin PA, Lee AC, Ahmad U, Antonoff M, Arndt A, **Backhus L**, Berry M, Birdas T, Cassivi SD, Chang AC, Cooke DT, Crabtree T, DeCamp M, Donington J, Fernandez F, Force S, Gaissert H, Hofstetter W, Huang J, Kent M, Kim AW, Lin J, Martin LW, Meyerson S, Mitchell JD, Molena D, Odell D, Onaitis M, Puri V, Putnam J, Reddy R, Schipper P, Seder CW, Shrager J, Tong B, Veeramachaneni N, Watson T, Whyte R, Ferguson MK. Consensus for Thoracoscopic Lower Lobectomy: Essential Components and Targets for Simulation. *Ann Thorac Surg.* 2021 Oct 21:S0003-4975(21)01746-X. doi: 10.1016/j.athoracsur.2021.09.033. PMID: 34688617
7. Khorfan R, Cooke DT, Meguid RA, **Backhus LM**, Varghese Jr. TK, Farjah F, Bilimoria KY, Odell DD for the ThORN Collaborative. Institutional factors associated with adherence to quality measures for stage I and II non-small cell lung cancer. *J Thorac Cardiovasc Surg.* 2021 Sep;162(3):649-660.e8. doi: 10.1016/j.jtcvs.2020.05.123. Epub 2020 Jul 29. PMID: 34144822

8. Wang Y, Yang CJ, He H, Buchan JM, Patel DC, Liou DZ, Lui NS, Berry MF, Shrager JB, **Backhus LM**. Short-term and intermediate-term readmission after esophagectomy. *J Thorac Dis*. 2021 Aug;13(8):4678-4689. doi: 10.21037/jtd-21-637. PMID: 34527309. *Presented at the American College of Surgeons Clinical Congress 2019*
9. Patel DC, Bhandari P, Epstein DJ, Liou DZ, **Backhus LM**, Berry MF, Shrager JB, Lui NS. Surgical Resection for Patients with Pulmonary Aspergillosis in the National Inpatient Sample. *J Thorac Dis*. 2021 Aug;13(8):4977-4987. doi: 10.21037/jtd-21-151. PMID: 34527336
10. Patel DC, Wang H, Bajaj SS, Williams KM, Pickering JM, Heiler JC, Manjunatha K, O'Donnell CT, Sanchez M, Boyd JH, **Backhus LM**. The Academic Impact of Advanced Clinical Fellowship Training among General Thoracic Surgeons. *J Surg Educ*. 2021 Oct 19:S1931-7204(21)00249-X. doi: 10.1016/j.jsurg.2021.09.003. PMID: 34674980
11. Su CC, Wu JT, Neal JW, Papat RA, Kurian AW, **Backhus LM**, Nagpal S, Leung AN, Wakelee HA, Han SS. Impact of Low-Dose Computed Tomography Screening for Primary Lung Cancer on Subsequent Risk of Brain Metastasis. *J Thorac Oncol*. 2021 Sep;16(9):1479-1489. doi: 10.1016/j.jtho.2021.05.010. Epub 2021 Jun 6. PMID: 34091050. *Presented at World Conference on Lung Cancer 2020*
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3. Patel DC, He H, Berry MF, Yang CJ, Trope W, Lui N, Liou DZ, **Backhus LM**, Shrager JB. Cancer diagnoses and survival rise as 65-year-olds become Medicare-eligible. *Presented at ASCO Annual Meeting 2020*
4. **Backhus L**, Farjah F, Varghese T, Cheng A, He H, Flum D, Au D, Kessler L, Zeliadt S. Is Specialty Provider Follow up Predictive of Adherence to Recommendations for Imaging Surveillance Following Lung Resection? *Poster presented at ACS Clinical Congress 2015. Journal of the American College of Surgeons, October 2015 Volume 221: 4 Supplement 2, Page e28.*
5. **Backhus LM**, Farjah F, Varghese TK, Cheng A, Zhou A, Wood DE, Kessler L, Zeliadt SB. Appropriateness of Imaging in Lung Cancer in a National Cohort. *ASCO Annual Meeting Abstracts Jun 17, 2013:7246.*
6. Hayanga AJ, Zeliadt S, Wood, DE, **Backhus LM**. The Association of Obesity, Smoking, and Access to Oncologic Services with Cancer Mortality in the US. *ASCO Annual Meeting Abstracts Jun 9, 2011:6023.*

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1. Disparity in Risk of Second Primary Lung Cancer Among Lung Cancer Patients in the United States” *Poster presentation at AACR-Disparity 2021*.
2. Titan AL, Okhilu J, Nesbit S, Baiu I, Lui N, Berry M, Shrager J, **Backhus L**. Screening mammography as a missed opportunity for lung cancer screening among high-risk women. *Pacific Coast Surgical Association Annual Meeting 2022*
3. Olive JK, Robinson JA, Brescia AA, Han JJ, Haney JC, Forbess JM, Varghese Jr TK, **Backhus LM**, Cooke DT, Preventza OA. Demographics of Integrated Thoracic Surgery Applicants and Residents: Is There a Leaky Pipeline? *Presented at the Southern Thoracic Surgical Association Annual Meeting 2021*
4. Okhiulu JO, Titan AL, Nesbit S, Lui NS, Liou D, Berry M, Shrager JB, **Backhus LM**. Quantifying screening mammography as a potential missed opportunity to improve lung cancer screening among high risk women. *Presented at the Society of Thoracic Surgeons Annual Meeting 2021*.
5. Lui N, Trope W, Guo HH, Gifford K, Bhandari P, Benson J, Liou D, **Backhus L**, Berry M, Shrager J. 3D Printed Model of the Mediastinum for Cardiothoracic Surgery Resident Education. *Presented at the American College of Surgeons Clinical Congress 2020*
6. Su C, Wu J, Neal J, Popat R, **Backhus L**, Leung A, Nagpal S, Wakelee HA, Han S. Impact of Low-Dose CT Screening for Primary Lung Cancer on Subsequent Risk of Brain Metastasis: Secondary Analysis of NLST. *Presented at World Conference on Lung Cancer 2020*
7. Patel DC, Bhandari P, Shrager JB, Berry MF, **Backhus LM**, Lui NS, Liou DZ. Concurrent Lung Resection during Esophagectomy does not Increase Perioperative Morbidity or Mortality. *Presented at the American College of Surgeons Clinical Congress 2020*

8. Benson J, Bhandari P, Lui N, Berry M, Liou D, Shrager J, Ayers K, **Backhus L**. Incorporation of a Multimedia Education Platform Improves Peri-operative Teaching for Lung Cancer Patients. *Presented at the Western Thoracic Surgical Association Annual Meeting 2020*
9. Baiu I, Bhandara P, Titan A, Wang Y, Liou DZ, Lui NS, Shrager JB, Berry MF, **Backhus LM**. Impact of Timing of Surgery on Outcomes as Part of Multimodality Treatment for Malignant Pleural Mesothelioma. *Presented at the American Association of Thoracic Surgery Annual Meeting 2020*
10. Williams K, Wang H, Bajaj S, O'Donnell C, Sanchez M, Hironaka C, **Backhus L**, Boyd J. Gender Disparities in Academic Cardiothoracic Surgery. *Presented at the American Heart Association Annual Meeting 2020*
11. Yang CJ, Wang Y, He H, Liou D, Lui N, Berry M, Shrager J, **Backhus L**. A National Evaluation of Short-term and Intermediate-term Readmission after Esophagectomy. *Presented at the American College of Surgeons Clinical Congress 2019*
12. Benson J, Ayers K, Lee A, Dejesus-Cortez A, Lui N, Berry M, Shrager J, **Backhus L**. Development of an Innovative Multimedia Educational Platform to Improve Patient Education in The Peri-Operative Setting. *Presented at the Society of Black Academic Surgeons Annual Meeting 2019*
13. Titan A, He H, Lui N, Liou D, Berry M, Shrager J, **Backhus L**. An Examination of Hormone Replacement Therapy and Reproductive History on Lung Cancer Incidence and Mortality in the Prostate, Lung, Colorectal, and Ovarian Cancer Screening Trial. *Presented at the American Association for Thoracic Surgery Annual Meeting 2019*
14. Odell DD, Cooke DT, Meguid R, **Backhus L**, Krantz S, Varghese T; Bilimoria K. Development of Consensus Measures of Lung Cancer Quality through a Modified Delphi Process. *Presented at the Society of Thoracic Surgeons Annual Meeting 2019*
15. Yang CF, Brown AB, Liou DZ, Lui NS, **Backhus LM**, D'Amico TA, Shrager JB, Berry MF. The Oldest Old: A National Analysis of Outcomes for Patients 90 Years or Older with Non-small-cell Lung Cancer. *Presented at the Society of Thoracic Surgeons Annual Meeting 2019*
16. Yang CJ, Deng J, Wang X, Lui N, **Backhus L**, Shrager J, D'Amico T, Berry M. A National Analysis on the Impact of VATS Procedural Volume on Thoracoscopic Lobectomy Outcomes. *Presented at the Society of Thoracic Surgeons Annual Meeting 2019*
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19. Pompili C, Edwards M, Bhandari P, Naunheim K, Novoa N, Brunelli A, **Backhus L**. Post Resection Lung Cancer Surveillance: Comparisons of practice between STS, ESTS and JACS Members. *Presented at World Conference on Lung Cancer 2018.*
20. Colwell E, Bhandari P, Benson J, He H, Lui N, Berry M, Shrager J, **Backhus L**. Examination of optimal timing of post-surgical surveillance for early stage lung cancer patients and association with outcomes. *Presented at World Conference on Lung Cancer 2018.*
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25. Liou D, **Backhus L**, Shrager J, Berry M. Induction Therapy for Locally Advanced Distal Esophageal Adenocarcinoma: Is Radiation Always Necessary? *Presented at AATS Annual Meeting 2017.*
26. Richardson MT, **Backhus LM**, Berry MF, Ayers KC, Lingala B, Teymourash M, Shrager JB. VATS Lobectomy can be Performed at Dramatically Lower Cost by Cost-conscious Surgeons, with no Impact on Outcome? *Presented at AATS Annual Meeting 2017.*
27. **Backhus L**, Ferrara L, Reinke L, Au D, Zeliadt S, Edwards T. The importance of patient recall within cancer survivorship care for improved post-treatment surveillance in lung cancer survivors. *Poster presented at the International Association for the Study of Lung Cancer: World Conference on Lung Cancer 2016*
28. Gao RW, Berry MF, Khuong A, Neal JW, **Backhus LM**, Shrager JB. Risk Factors for Progression of Ground Glass Opacities in Patients with Resected Pulmonary Adenocarcinoma. *Poster presented at AATS Annual Meeting 2016*

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30. Shaffer R, Tsai C, **Backhus LM**, Curtin C, Hernandez-Boussard T. Identification of targets to improve return to Emergency Room and Hospital Readmission among patients undergoing thoracotomy procedures. *Poster presented at American Thoracic Society 2016*
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36. Mollberg N, Farhood F, Howell E, Ortiz J, **Backhus L**, and Mulligan M. The Impact of Primary Caregivers on Long-term Outcomes after Lung Transplantation. *Presented at ISHLT 2014*
37. Farjah F, **Backhus LM**, Varghese TK, Manning JP, Cheng AM, Mulligan MS, Wood DE. External Validation of a Prediction Model for Pathologic N2 in Radiographically Early-Stage Lung Cancer Patients. *Presented at AATS 2014 Annual Meeting*
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43. Reinke LF, Vig EK, **Backhus LM**, Wu D, Uman J, Wynar B, Au DH. Palliative Care Needs for Veterans Newly Diagnosed with Lung Cancer. *Oral Presentation at the MASCC – International Cancer Care Symposium 2012*
44. Slatore CG, Zeliadt SB, **Backhus LM**, Kessler LG, Hu E, Au. A Comparative Effectiveness Study of Pre-Operative PET Imaging and the Reduction of Unnecessary Lung Cancer Surgery. *Oral Presentation at HSR&D/QUERI National Conference 2012.*
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Temporal Trends in PET/CT Imaging and Impact on Surgical Resection Among Veterans with Non-Small Cell Lung Cancer. *Oral Presentation at the 48th Annual Meeting of the Society of Thoracic Surgeons 2012.*
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Chapters:

1. Greenfield's Surgery : Scientific Principles and Practice; Chapter: Esophageal Tumors and Injury. Lui N, Berry M, Zak Y, **Backhus L**. editors, Michael W. Mulholland et al, with 216 contributors ; illustrations by Holly R. Fischer.. Philadelphia, PA :Lippincott Williams & Wilkins, 7th Ed. 2021
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Other Media (Podcasts/Webinars):

1. **Backhus LM**. Invited Speaker. “Lung Cancer in Women”. The National Lung Cancer Roundtable. American College of Radiology Webinar. Original Air Date: Nov 3, 2021.
2. **Backhus LM**. Invited Speaker. “Women in Cardiothoracic Surgery: A Global Perspective”. AIS Channel. Webinar. Original Air Date: Oct 26, 2021. <https://aischannel.com/live-surgery/women-in-cardiothoracic-surgery-a-global-perspective/>
3. **Backhus LM**. Invited Speaker. “The Historical Relationship Between Black America, Medicine, and Research: Deconstructing Barriers and Optimizing Care”. Audible Bleeding Podcast; Original Air Date: July 11, 2021. <https://www.audiblebleeding.com/black-america-and-vascular-surgery/>
4. **Backhus LM**. Invited Speaker. “Women in Thoracic Surgery Scholarship: Impact on Career Path and Interest in Cardiothoracic Surgery.” STS Hot Topics Podcast; Original Air Date: July 30, 2021. <https://www.podbean.com/ew/pb-e96qc-10a052d>
5. **Backhus LM**. Invited Speaker. Episode 06: “How High-Achieving Moms Balance Career and Family: The 6% with Nancy MD Podcast. <https://www.nancymd.com/podcasts/leahbackhusmd/>.
6. **Backhus LM**. Invited Speaker. “Helping Women Surgeons Build Resiliency: Virtual Event Shares Experience and Insights”. Johnson & Johnson Institute. Original Air Date: Aug 4, 2020. <https://jnjinstitute.com/en-us/news/helping-women-surgeons-build-resiliency-virtual-event-shares-experience-and-insights>.
7. Baiu I, **Backhus L**. Esophageal Cancer Surgery. *JAMA*. 2020 Oct 20;324(15):1580. doi: 10.1001/jama.2020.2101.
3. Baiu I, **Backhus L**. What Is a Tracheostomy? *JAMA*. 2019 Nov 19;322(19):1932. doi: 10.1001/jama.2019.14994. PMID:31742632
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5. **Backhus, LM.** Society of Thoracic Surgeons Patient Education Web Publication. “*From Maximal to Minimal in Thoracic Surgery: Less is More...but not Always*”.
<http://ctsurgerypatients.org/>