

M. Usman Ahmad

Education

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|-----------|-------------|------------------------------|--|
| 2015-2019 | MD | Medicine | University of South Florida Morsani College of Medicine, Tampa, FL |
| 2009 | BA | Economics | Northwestern University, Evanston, IL |
| 2021 | Certificate | Fundamentals of Data Science | Stanford ICME, Stanford, CA |
| 2019 | Certificate | Quality & Safety | Institute for Healthcare Improvement, Boston, MA |
| 2012 | Certificate | Clinical Trial Management | University of Chicago, Chicago, IL |
| 2007 | No degree | Public Health, TCM, Mandarin | Tsinghua University, Beijing, China |

Postdoctoral Training

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| 06/2021-Current | Postdoctoral Research Fellowship | Stanford University, Stanford, CA |
| | Surgical Oncology, Department of Surgery & Kirane Lab | |
| | Artificial Intelligence, Machine Learning, & Basic Tumor Immunology | |
| 06/2020-06/21 | Residency in General Surgery | Stanford Medicine, Stanford, CA |
| 06/2019-06/20 | Internship in General Surgery | University of Colorado Anschutz, Aurora, CO |

Professional Experience

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| 2014-15 | Consultant | Vizient, Chicago, IL |
| | Developed automation process for outcomes of 90% of AMCs in the U.S. | |
| | Completed org change launching a service center covering 5 software products. | |
| 2010-14 | Senior Associate | Neurowave Medical Technologies, Chicago, IL |
| | New product development including IP development, forecasting, operating budget, business strategy, and new market assessment. | |
| | Launched plan, product, and team for oncology launch 4x ROI/12 months (\$3MM). | |
| | Regulatory and clinical data expert for FDA, OUS approvals, and reimbursement. | |
| 2009-10 | Consultant | Zone Medical, San Diego, CA |
| | General management sales & operations planning (\$600K) for Central and East US | |
| | Planned barcoding standardization and regulatory approval across global market | |

Honors & Scholarships

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| 2018 - Current | Robert A. Good Honor Society | USF MCOM, Tampa, FL |
| | USF research honor society <10% class | |
| 2018 | DFA National Leadership Conference Scholarship | DFA, Washington, DC |
| 2017-19 | MD SELECT Galen Scholarship | USF MCOM, Tampa, FL |
| 2015-19 | MD SELECT Koch Award | USF MCOM, Tampa, FL |
| 2015-19 | Anderson SELECT Scholars | USF MCOM, Tampa, FL |
| 2015-16 | MD SELECT Osler Award | USF MCOM, Tampa, FL |
| 2016 | SELECT Research Stipend | USF MCOM, Tampa, FL |
| 2006-07 | Herman J. DeFord Scholarship | Northwestern University, Evanston, IL |
| 2006-07 | J. G. Nolan Scholarship | Northwestern University, Evanston, IL |

Funding & Awards

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| 2018 | AMA Interim Conference Funding | PAMED, Harrisburg, PA |
| 2018 | PAMED Annual Conference Funding | LCMS, Allentown, PA |
| 2018 | AMA Annual Conference Funding | PAMED, Harrisburg, PA |
| 2017 | Carolyn L. Kuckein Fellowship | AQA, Aurora, CO |
| | Original research project with 1 application per chapter, 130 chapters, 50 awards | |
| 2017 | ATC Travel Award (12/100 Awarded) | AST, Mount Laurel, NJ |
| 2017 | FMA Legislative Visit Day | Florida Medical Association, Tallahassee, FL |
| 2010 | Innovate Illinois Competition (1 st Place) | Chamber of Commerce, Chicago, IL |

Professional Memberships

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| 2022-Current | Member, Society of Asian Academic Surgeons |
| 2022-Current | Member, Society for Immunotherapy of Cancer |
| 2020-Current | Member, California Medical Association |
| 2019-Current | Member, Colorado Medical Society |
| 2017-Current | Member, American College of Surgeons |
| 2015-Current | Member, American Medical Association |

Research Experience

- 2021-Current Stanford University School of Medicine – Stanford, CA
Department of Surgical Oncology. Li Laboratory & Kirane Laboratory
- George A. Poultides, MD, MS, FACS, Professor of Surgery & Amanda Kirane MD, FACS, Assistant Professor of Surgery
Mentored in multiple projects spanning across two distinct fields including the application of artificial intelligence/machine learning in oncologic malignancy (Poultides/Li Lab) and basic scientific research in tumor immunology (Kirane Lab).
- 05/16-08/16 University of Cambridge School of Clinical Medicine – Cambridge, UK
An Antitumor Antibody Response to Attenuate Metastatic Melanoma in a Murine Model: Department of Surgery, Addenbrooke's Hospital
- Gavin J. Pettigrew, Reader in Clinical and Experimental Transplantation, Honorary Consultant Surgeon & Reza Motallebzadeh, Clinical Lecturer & Specialist Registrar
To determine the ability of adoptively transferred MHC class II mismatched CD4(+) T-cells to induce a tumor specific antibody response in a murine model of melanoma. To correlate the level of antibody with reduced tumor burden.
- Techniques: ELISA, Magnetic Activated Cell Sorting (MACS), cryosectioning, microtome, double immuno-fluorescent antibody techniques, data analysis
- 2005-07 Northwestern University – Evanston, IL
Department of Molecular Biosciences, Mayo Laboratory
- Kelly Mayo, Professor, Department of Molecular Biosciences
Assisted with research concerning gene regulation of ovarian hormone action and signal transduction.
- Techniques: General laboratory e.g. pipette, weigh, sterilize, prepare media, pour plates, assist with sorting imaging

Presentations

- Nov 2022 Jiang Y, Zhang Z, Wang W, Huang W, Chen C, Xi S, **Ahmad MU**, Ren Y, Sang S, Xie I, Xiong W, Li T, Han Z, Yuan Q, Xu Y, Xing L, Poultides GA, Li G, Li R. Biology-guided Deep Learning Predicts Prognosis and Cancer Immunotherapy Response. Poster Presenter, Society for Immunotherapy of Cancer, Boston, MA.
- Nov 2022 **Ahmad MU**, Lee D, Tennakoon L, Chao TE, Spain DA, Staudenmayer KL. Oral Presentation, Western Surgical Association, Santa Barbara, CA
- May 2022 **Ahmad MU**, Javadi C, Chang J, et al. [Radiographic, Biochemical, or Pathologic Response to Neoadjuvant Chemotherapy in Resected Pancreatic Cancer: Which is Best?](#). Holman Research Day 2022. Stanford University, Stanford, CA.

Presentations (cont'd)

- Sep 2020 **Ahmad MU**, Riley K, Ridder T. Acute Colonic Pseudo-obstruction after Posterior Spinal Fusion: A Case Report and Literature Review. SWSC 2020 Annual Meeting, Ojai, CA. (Conference Cancelled COVID-19).
- June 2020 **Ahmad MU**. Solid Pseudopapillary Neoplasm (SPN) Case Presentation – Surgical Management & Blood Transfusions & Carcinogenesis. University of Colorado, Division of Surgical Oncology Conference, Aurora, CO.
- June 2020 **Ahmad MU**. Malignant Peripheral Nerve Sheath Tumor Case Presentation – Surgical Management of Sarcoma & Electrochemotherapy as Adjunct Treatment. University of Colorado, Division of Surgical Oncology Conference, Aurora, CO.
- June 2020 **Ahmad MU**, Riley KD, Ridder T. Acute Colonic Pseudo-Obstruction: A Case Report and Literature Review. E-Poster, AANS, Boston, MA ([Online due to COVID-19](#))
- May 2020 **Ahmad MU**. Pancreatic Cancer Case Presentation – Unresectable vs. Resectable Disease & Role of Microbiome in Pathogenesis and Treatment. University of Colorado, Division of Surgical Oncology Conference, Aurora, CO.
- Nov 2019 **Ahmad MU** representing Region 3, Region 4, Region 5, Region 7, Hargraves A, Panigrahi A. Health Impact of Per- and Polyfluoroalkyl Substances (PFAS) Contamination in Drinking Water. Testimony, HOD, AMA, San Diego, CA.
- Aug 2019 **Ahmad MU**, Zhang A, Mhaskar R. A Predictive Model for Decreasing Clinical No-Show Rates in a Primary Care Setting. Poster Presentation, Florida Medical Association Annual Meeting, Orlando, FL.
- Dec 2018 **Ahmad MU**. Alcoholic Liver Disease (ALD) & Organ Transplantation. University of Washington, Division of Transplant Surgery, M&M, Seattle, WA.
- May 2017 **Ahmad MU**, Hanna A, Mohamed A, Mhaskar R, Jarmi T, Schlindwein A, Pley C, Bahner, I. Increasing Organ Supply in the US: A Systematic Review of Presumed Consent vs. Informed Consent (2006-2016). Oral Presentation, American Transplant Congress, Chicago, IL.
- Feb 2017 **Ahmad MU**, Rehakova S, Van Der Weyden L, Adams D, Speak A, Motallebzadeh R, Pettigrew GJ. An Antitumor Antibody Response to Attenuate Metastatic Melanoma in a Murine Model. USF Health Research Day, Tampa, FL.
- Nov 2016 **Ahmad MU**, Hanna A, Mhaskar R, Mohamed A, Schlindwein A, Pley C, Bahner I. Increasing Organ Supply in the US: A Systematic Review of Presumed Consent vs. Informed Consent (2006-2016). American Medical Association Research Symposium, Orlando, FL

Abstracts, Articles

Sun B, **Ahmad MU**, Gingrich AA, Walsh A, Nielsen R, Maverakis E, Kirane AR. [The Role of AXL Tyrosine Kinase in the Melanoma Immune Microenvironment](#). Ann Surg Oncol. 2022; 29 (suppl 2).

Javadi C, Chang J, Forgo E, **Ahmad MU**, Fisher GA, Chang DT, Delitto DJ, Dua MM, Lee B, Visser BC, Norton JA, Poultides GA. [Radiographic, Biochemical, or Pathologic Response to Neoadjuvant Chemotherapy in Resected Pancreatic Cancer: Which is Best?](#). Ann Surg Oncol. 2022; 29 (suppl 2).

Lowe MC, **Ahmad MU**, Sun B, Gholami S, Maverakis E, Kirane AR. [Neoadjuvant Intralesional Therapy for High Risk Stage II Melanoma](#). Ann Surg Oncol. 2022; 29 (suppl 2).

Ahmad MU. [Community Health: Does a Doctor's Job End in the Clinic?](#) Lehigh Cty Heal Med. 2018:20-21.

Ahmad M, Hanna A, Mohamed A, Mhaskar R, Jarmi T, Schlindwein A, Pley C, Bahner I. [Increasing Organ Supply in the US: A Systematic Review of Presumed Consent vs. Informed Consent \(2006-2016\)](#). [abstract]. Am J Transplant. 2017; 17 (suppl 3).

Peer Reviewed Publications

Ahmad MU, Gebregziabher B, Lee B. [Rare Histologies in Peritoneal Carcinomatosis: A Literature Review](#). Digestive Medicine Research. 2022. doi: 10.21037/dmr

Ahmad MU, Javadi C, Poultides G. [Neoadjuvant Treatment Strategies for Resectable Proximal Gastric, Gastroesophageal Junction, and Distal Esophageal Cancer](#). Cancers. 2022. doi: 10.3390/cancers14071755

Ahmad MU, Riley KD, Ridder R. [Acute Colonic Pseudo-Obstruction After Spinal Fusion: A Case Report and Literature Review](#). World Neurosurgery. 2020; 352-363. doi: 10.1016/j.wneu.2020.07.013

Ahmad MU, Zhang A, Mhaskar R. [A Predictive Model for Decreasing Clinical no-show Rates in the Primary Care Setting](#). Intl J of Healthcare Mgmt. 2019; 829-836. doi: 10.1080/20479700.2019.1698864

Ahmad MU, Hanna A, Mohamed A, Schlindwein A, Pley C, Bahner, I, Mhaskar R, Pettigrew GJ, Jarmi T. [A Systematic Review of Opt-out vs. Opt-in Consent on Deceased Organ Donation and Transplantation \(2006-2016\)](#). World J Surg. 2019; 43, 3161–3171. doi:10.1007/s00268-019-05118-4

Creelan BC, **Ahmad MU**, Kaszuba FJ, et al. [Clinical Activity of Nivolumab for Human Papilloma Virus-Related Juvenile-Onset Recurrent Respiratory Papillomatosis](#). Oncologist. 2019:1-7. doi:10.1634/theoncologist.2018-0505

Funding Support

2017 Co-Investigators: **Ahmad MU** & Jarmi T

Title: Public Perception of Presumed Consent in the US and UK.

Alpha Omega Alpha Carolyn L. Kuckein Student Research Fellowship; **\$5,000**

Role: Generated concept, design, proposal and coordinated UK and US approval of study

2022 Co-Investigators: Poultsides GA & Lin A

Title: [Agent Orange & Risk of Pancreatic Carcinogenesis](#)

Private Seed Funding; **\$5,000**

Role: Generated design, proposal, and coordinated research/regulatory plan (in process)

2022 Co-Investigators: Poultsides GA & Banaei N

Title: [Assessing Pancreatic Adenocarcinoma Intratumoral Microbiome to Develop a Biomarker Predictive of Long-term Outcomes and Response to Chemotherapy](#)

Stanford Sarafan ChEM-H Seed Funding; **\$50,000**

Role: Generated concept, collaboration, design, and proposal (in process)

Health Policy

Region 6, Region 7, Ahmad MU, Benton E, Reyes O, Lai BS, Hoff NA, Patel A, Pereira D, Roussas A, Kamath P. Tuition Reimbursement for Medical Student Performed EHR Documentation as part of Evaluation & Management. Resolution, American Medical Association MSS A-18. Published.

Region 3, Region 4, Region 5, Region 7, Hargraves A, Panigrahi A, **Ahmad MU**. Health Impact of Per- and Polyfluoroalkyl Substances (PFAS) Contamination in Drinking Water. Resolution, American Medical Association MSS A-19. Published.

Region 1, Region 6, Panigrahi A, Liu S, Danesh D, **Ahmad MU**, Jiang J, Crowder H. Curtailing Greenhouse Gas Emissions to Net Zero in the Health Sector. Resolution, American Medical Association MSS A-19. Published.

Committee on Legislation & Advocacy. Support for Housing Modification Policies. Report, American Medical Association MSS A-19. Published. Description: Insurance coverage mechanisms for occupational therapy led housing modifications to prevent falls and trauma admissions.

Committee on Legislation & Advocacy. Mandatory Reporting of Sexual Misconduct Allegations to Law Enforcement. Report, American Medical Association MSS A-19. Published. Description: Evaluating current mandatory reporting laws when perpetrators of sexual misconduct are health professionals and victims are patients.

Ahmad MU representing authorship. Health Impact of Per- and Polyfluoroalkyl Substances (PFAS) Contamination in Drinking Water. Testimony, House of Delegates, American Medical Association I-19.

Quality Improvement

Ahmad MU, Shah K, Zhang A, Porat D, Bowers P, Duerr E, Sabino J, Greenberg M. Improving LGBTQ Health Outcomes at LVHN. Lehigh Valley Health Network, Allentown, PA. An assigned quality improvement project for the certificate program where I acted as team lead with a primary survey to health practices, data analysis and a final presentation with the project team.

Professional Roles (Unpaid)

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| 2021-Current | Council Member | Stanford University Postdoctoral Association, Stanford, CA |
| 2013-Current | Peer Reviewer for Academic Journals | Biomolecules, Basel, Switzerland (1); Cancers, Basel, Switzerland (1); Current Oncology, Basel, Switzerland (1); Cancer Medicine, Hoboken, NJ (1); Metabolites, Basel, Switzerland (1); World Journal of Surgical Oncology, London, UK (1); Progress in Transplantation, Evansville, IN (1); Applied Clinical Informatics, Nashville, TN (1); Annals of Transplantation, Melville, NY (1); International Journal of Healthcare Management, UK (24) |
| 2013-Current | Mentor & Reviewer Mentor & annual review of scholarship applications | Greenhouse Scholars, Chicago, IL |
| 2018-19 | Voting Delegate | Lehigh County Medical Society, Allentown, PA Attend board meetings, vote at state meeting on behalf of county |
| 2017-19 | Committee on Legislation & Advocacy Vice Chair, 2018 – 19; Member, 2017-18 | AMA MSS, Chicago, IL |
| 2013-15 | Medical Volunteer | CommunityHealth – Chicago, IL Largest free clinic by volume in the US. Spanish language triage, EHR conversion |
| 2013-15 | Director – Board | CUBE Ensemble – Chicago, IL Advised arts organization with a 25+ year history on strategy and management |
| 2010-12 | Director – Board | CityThink Detroit – Detroit, MI Advised social entrepreneurship incubator |

Invited Lectures

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| Apr 2022 | Speaker, Panel | Healthcare Corner Conference, Virtual, US Invited speaker on panel for teens in high school interested in careers in healthcare (100 students). Joint conference with The Stemistry Project (SF, CA) & Teens for Healthcare Frisco (Frisco, TX). |
| Nov 2022 | Lecture | University of Richmond, Richmond, VA Course: Digital Revolutions in Context Title: Hope, Reality or Hype: Machine Learning in Healthcare |

Extracurricular Involvement

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| 2018-19 | Voting Delegate/Member, AMA MSS Reestablished chapter at USF-LVHN and regained voting rights for 100+ student body at USF-LVHN satellite campus | USF-LVHN, Allentown, PA |
| 2017-19 | Member, COM Diversity & Inclusion Council Case writing for Doctoring Course, Meeting planning | USF MCOM, Tampa, FL |
| 2017-19 | Medical Volunteer, Street Medicine Medical support and triage for homeless population | USF-LVHN, Allentown, PA |
| 2016-17 | Medical Volunteer, Tampa Bay Street Medicine Medical support on street runs for homeless population, clinical appointments at Well clinic, and performed at fundraiser. | USF MCOM, Tampa, FL |
| 2015-16 | Voting Member, COM Allocation Committee Approved budget requests for student organizations. | USF MCOM, Tampa, FL |
| 2015-16 | Medical Volunteer, Ybor Youth Clinic Serving at risk youth, LGBTQ population and socioeconomically disadvantaged. Assisted with sexual health screening, counseling, HIV/AIDS screening, and IUD consultations. | USF MCOM, Tampa, FL |
| 2016 | Medical Volunteer, SACA Health Fair Suncoast Association of Chinese Americans health fair at Chinese New Year festival. Phlebotomy for Hepatitis B screening and performed basic health vitals. | USF MCOM, Tampa, FL |
| 2005-Current | Musician (Vocalist/Guitarist) – [Recent Performances] Tampa Bay Street Medicine Fundraiser, Dec 2016, Tampa, FL Band-aids for Bridge Fundraiser, Jan 2016, Tampa, FL | Various Locations |
| 2008-09 | Co-founder, NU-IMAN Community service organization. Co-lead seminar for 300 high school students on service. Served weekly at St. Thomas of Canterbury Soup Kitchen, Chicago, IL. Performed at 1st fundraiser in fall 2009 after graduating. | Northwestern University, Evanston, IL |
| 2005-08 | President, Peace of Mind A group devoted to discourse to resolve the Israeli-Palestinian conflict. 50/50 representation from Jewish and Muslim stakeholders. Quadrupled campus programming, established office in student organization headquarters, increased membership by 3x, and recruited new executive team. | Northwestern University, Evanston, IL |
| 2005-08 | Rower, Crew Team 20+ hours per week of daily training and team travel commitments. Ranked in top 5 on team in fall 2006. Top 1/3 in Head of the Charles, 4+, fall 2006 | Northwestern University, Evanston, IL |

Skills

Administrative

- General Management, Data analysis & visualization (Stata/SAS/Tableau), E-Health Records

Laboratory

- ELISA, Magnetic Activated Cell Sorting (MACS), cryo-sectioning, microtome, double immunofluorescent antibody techniques
- General laboratory e.g. pipette, weigh, sterilize, prepare media, pour plates, buffer preparation, dilutions, solutions, and trouble-shooting

Languages

- English – native fluency & Punjabi – fluent
- Urdu – intermediate & Spanish – intermediate

Interests

- History
- Guitar
- Running
- Cuisine
- Aviation

Licensure and Certification

Colorado Full Physician License (DR.0066109)

Student Pilot License (4391035)

DEA (FA9640055)