

CURRICULUM VITAE
JONATHAN M. TAN, MD, MPH, MBI, FASA, CMQ
FEBRUARY 2024

PERSONAL INFORMATION:

Work

The Children's Hospital of Los Angeles
Dept of Anesthesiology Critical Care Medicine
4650 Sunset Blvd. MS #3
Los Angeles, CA 90027

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EDUCATION AND PROFESSIONAL APPOINTMENTS

EDUCATION:

1999 Regents Diploma with Honors, Syosset High School, Syosset, NY.
2003 B.A. Biology / B.A. Health and Society with Highest Distinction and Honors in Research,
University of Rochester, Rochester, NY.
2005 M.P.H., Health Policy and Administration, Yale University School of Epidemiology and Public
Health, New Haven, CT.
2009 M.D., SUNY Stony Brook School of Medicine, Stony Brook, NY.
2018 M.B.I., Biomedical Informatics, Oregon Health & Science University School of Medicine,
Portland, OR.

POST-GRADUATE TRAINING:

2009-2010 Internship/Clinical Base Year, Department of Anesthesiology, Stony Brook University Medical
Center, Stony Brook, NY.
2010-2012 Resident, Anesthesiology, Department of Anesthesiology, Stony Brook University Medical
Center, Stony Brook, NY.
2012-2013 Chief Resident, Anesthesiology, Department of Anesthesiology, Stony Brook University
Medical Center, Stony Brook, NY.
2013-2014 Fellow, Pediatric Anesthesiology, Department of Anesthesiology, Children's Hospital of
Pittsburgh, University of Pittsburgh Medical Center, Pittsburgh, PA.
2014-2015 The Joseph E. Robert, Jr. Fellowship in Pediatric Surgical Innovation, The Sheikh Zayed
Institute for Pediatric Surgical Innovation, Children's National Health System, Washington, DC.

ACADEMIC APPOINTMENTS:

2009-2013	Clinical Assistant Instructor	Department of Anesthesiology, Stony Brook University Medical Center, Stony Brook, NY.
2014-2015	Research Instructor	Department of Pediatrics, George Washington University School of Medicine and Health Sciences, Washington, DC.
2014-2015	Clinical Associate	Division of Anesthesiology, Sedation and Perioperative Medicine, Children's National Health System, Washington, DC.

2015-2020	Assistant Professor	Department of Anesthesiology and Critical Care, The Children's Hospital of Philadelphia, Philadelphia, PA.
2015-2020	Assistant Professor	Department of Anesthesiology and Critical Care, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA.
2016-2020	Assistant Professor	Department of Biomedical and Health Informatics, The Children's Hospital of Philadelphia, Philadelphia, PA.
2016-2020	Senior Fellow	Leonard Davis Institute for Health Economics, The University of Pennsylvania, Philadelphia, PA.
2016-2020	Senior Fellow	Penn Center for Public Health Initiatives, The University of Pennsylvania, Philadelphia, PA.
2017-2020	Senior Scholar	Penn Center for Perioperative Outcomes and Research Transformation (CPORT), The University of Pennsylvania, Philadelphia, PA.
2020-Present	Assistant Professor	Department of Anesthesiology, Keck School of Medicine at the University of Southern California, Los Angeles, CA.
2020-Present	Assistant Professor	Department of Anesthesiology Critical Care Medicine, Division of Anesthesiology, Children's Hospital Los Angeles, Los Angeles, CA.
2020-2021	Faculty Affiliate	Population, Health and Place Ph.D. Program, Spatial Sciences Institute, University of Southern California, Los Angeles, CA.
2021-Present	Assistant Professor	Spatial Sciences Institute, University of Southern California, Los Angeles, CA.
2023-Present	Vice Chair of Analytics and Clinical Effectiveness (Acting)	Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles, Los Angeles, CA.

CLINICAL APPOINTMENTS:

2009-2013	Clinical Assistant Instructor	Department of Anesthesiology, Stony Brook University Medical Center, Stony Brook, NY.
2014-2015	Attending Pediatric Anesthesiologist	Division of Anesthesiology, Sedation and Perioperative Medicine, Children's National Health System, Washington, DC.
2015-2020	Attending Pediatric Anesthesiologist	Department of Anesthesiology and Critical Care, The Children's Hospital of Philadelphia, Philadelphia, PA.
2015-2020	Attending Pediatric Anesthesiologist	Department of Anesthesiology and Critical Care, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA.
2020-Present	Attending Pediatric Anesthesiologist	Department of Anesthesiology Critical Care Medicine, Division of Anesthesiology, Children's Hospital Los Angeles, Los Angeles, CA.

ADMINISTRATIVE APPOINTMENTS:

2012-2013	Chief Resident	Department of Anesthesiology, Stony Brook University Medical Center, Stony Brook, NY.
2016-2020	Elected Committee Member	Research Council, Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia Philadelphia, PA.
2018-2020	Committee Member	Quality and Safety Committee, Department Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia Philadelphia, PA.
2020-Present	Committee Member	Quality Assurance and Quality Improvement Committee, Division of Anesthesiology, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles, Los Angeles, CA.
2021-Present	Invited Committee Member	Process Improvement and Quality Committee, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles, Los Angeles, CA.
2021-Present	Elected Committee Member	Research Oversight Committee, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles, Los Angeles, CA.
2021-Present	Invited Committee Member	The Saban Research Institute (TSRI) Seminar Series Review Committee, Children's Hospital Los Angeles, Los Angeles, CA.
2021-Present	Invited Committee Member	Informatics Committee, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles, Los Angeles, CA.
2021-Present	Invited Committee Member	Social and Emotional Determinants of Health (SEDOH) Steering Committee, Children's Hospital Los Angeles, Los Angeles, CA.
2021-Present	Committee Member	Diversity, Equity, and Inclusion Strategic Planning Committee, Subcommittee on Health Equity, Children's Hospital Los Angeles, Los Angeles, CA.
2022-Present	Invited Team Member	Strategy Implementation Team on Innovative, Transdisciplinary Research Partnerships and Collaborations, CHLA Research Enterprise Strategic Plan, Children's Hospital Los Angeles, Los Angeles, CA.
2022-Present	Co-Leader	Enterprise Strategic Planning for Health Equity in Pediatric Pain Medicine, CHLA Quality Strategic Plan, Children's Hospital Los Angeles, Los Angeles, CA.
2023-Present	Vice Chair of Analytics and Clinical Effectiveness (Acting)	Department of Anesthesiology and Critical Care Medicine, Children's Hospital Los Angeles, Los Angeles, CA.
2023-Present	Physician Champion	Hospital Acquired Conditions (HAC) Surgical Site Infection Workgroup, Children's Hospital Los Angeles, Los Angeles, CA.

2023-Present	Committee Member	Hospital Acquired Conditions (HAC) Oversight Committee, Children's Hospital Los Angeles, Los Angeles, CA.
2023-Present	Committee Member	Quality Management Oversight Workgroup (DNV ISO), Children's Hospital Los Angeles, Los Angeles, CA.
2023-Present	Faculty Member	Clinical Informatics Fellowship Program (ACGME-Approved), Children's Hospital Los Angeles, Los Angeles, CA.
2024-Present	Voting Member	Medical Staff Quality Improvement Committee/Patient Safety Committee, Children's Hospital Los Angeles, Los Angeles, CA.

LICENSURE, CERTIFICATIONS

LICENSURE:

5/12/2014-12/31/2016	MD042208, District of Columbia, Expired
4/1/2018-12/31/2018	Republic of Kenya, Expired
5/17/2018-6/30/2021	25MA10352700, New Jersey, Active
6/25/2013-12/31/2022	MD449265, Pennsylvania, Active
8/28/2020-8/31/2022	C17009, California, Active

BOARD CERTIFICATION OR ELIGIBILITY:

2014	Diplomate, American Board of Anesthesiology, Raleigh, NC. – Status: Active
2014	Diplomate, Subspecialty Certification in Pediatric Anesthesiology, American Board of Anesthesiology, Raleigh, NC. – Status: Active
2019	Diplomate, Subspecialty Certification in Clinical Informatics, American Board of Preventive Medicine, Chicago, IL. – Status: Active

SPECIALTY CERTIFICATION:

2015	Certified in Medical Quality, American Board of Medical Quality – Status: Active
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OTHER CERTIFICATIONS OR EXAMINATIONS:

2006-Current	BLS Certification, Expires: 2/2022
2006-Current	ACLS Certification, Expires: 2/2022
2010-Current	PALS Certification, Expires: 2/2022
2012-2014	Neonatal Resuscitation Program, Expired

HONORS, AWARDS:

2000	National Science Foundation Research Experience for Undergraduate Fellowship Award	National Science Foundation, Alexandria, Virginia
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2002	Golden Key International Honour Society (and Chapter President)	Golden Key International Honour Society, Atlanta, GA
2003	Phi Beta Kappa Honor Society	The Phi Beta Kappa Society, Washington, DC
2003	Magna Cum Laude	The University of Rochester, Rochester, NY
2003	Graduated with Highest Distinction and Honors in Research	The University of Rochester, Rochester, NY
2003	Alice DeSimone Student Life Award	The University of Rochester, Rochester, NY
2003	Charles E. Phelps Prize for Best Senior Thesis	Awarded by the Provost of the University of Rochester, Rochester, NY
2003	Deans Scholarship for Academic Achievement	Yale University School of Epidemiology and Public Health, New Haven, CT
2004	John D. Thompson Research Award	Yale University School of Epidemiology and Public Health, New Haven, CT
2006	Foundation for Anesthesia Education and Research (FAER) Medical Student Research Fellowship	Foundation for Anesthesia Education and Research (FAER), Schaumburg, IL
2008	Gold Foundation for Humanism in Medicine Honor Society	The Arnold P. Gold Foundation and SUNY Stony Brook School of Medicine, Englewood Cliffs, NJ
2009	United University Professions Community Service Award	United University Professions, Stony Brook Health Sciences Center and SUNY Stony Brook School of Medicine, Stony Brook, NY
2009	Stony Brook HOME (Health Outreach and Medical Education) Distinguished Student Service Award	SUNY Stony Brook School of Medicine, Stony Brook, NY
2010	Resident Teacher of the Year Award	Department of Anesthesiology, Stony Brook University School of Medicine, Stony Brook, NY
2010	Resident Award for Excellence in Medical Student Teaching	Department of Anesthesiology, Stony Brook University School of Medicine, Stony Brook, NY
2011	Resident Team Player of the Year Award	Department of Anesthesiology, Stony Brook University School of Medicine, Stony Brook, NY
2012	Resident Award for Excellence in Medical Student Teaching	Department of Anesthesiology, Stony Brook University School of Medicine, Stony Brook, NY
2012	Chief Resident	Department of Anesthesiology, Stony Brook University School of Medicine, Stony Brook, NY
2014	Joseph E. Marcy MD Memorial Fellow Award for Clinical Excellence	Department of Anesthesiology, Children's Hospital of Pittsburgh, University of Pittsburgh Medical Center, Pittsburgh, PA
2016	Engineering Challenge Winner	Society for Technology in Anesthesia Annual Meeting, Palm Beach, FL
2016	Perfect Resident Teaching Score	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia and The University of Pennsylvania, Philadelphia, PA

2017	Perfect Resident Teaching Score	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia and The University of Pennsylvania, Philadelphia, PA
2018	Mentored Research Award: AAP John J. Downes Research Award Oral Presentation	Society for Pediatric Anesthesia Annual Meeting, (Miguel Yapor, MD – University of Pennsylvania Anesthesia Resident), Phoenix, AZ
2018	3rd Place Team for Excellence in Quality and Safety Award	Eighth Annual Quality and Patient Safety Day, The Children's Hospital of Philadelphia, Philadelphia, PA
2018	Top 10 Best Abstracts for Research	European Society for Paediatric Anaesthesiology Annual Meeting, Brussels, Belgium
2019	Best Clinical Application Abstract Award	Society for Technology in Anesthesia Annual Meeting, Scottsdale, AZ
2019	Good Catch Clinical Award for Patient Safety	The Children's Hospital of Philadelphia, Philadelphia, PA
2019	ICARE Champion Award (Integrity, Compassion, Accountability, Respect and Excellence)	The Children's Hospital of Philadelphia, Philadelphia, PA
2019	Pediatric Anesthesiology: Editor's Picks for Anesthesia and Analgesia	American Society of Anesthesiology Annual Meeting, Orlando, FL
2020	Best Pediatric Anesthesia Research: Editor's Pick for Anesthesia & Analgesia and Pediatric Anesthesia	SPA-AAP Pediatric Anesthesiology Annual Meeting, Atlantis, Paradise Island, Bahamas
2020	COVID-19 Rapid Response Award	Leonard Davis Institute of Health Economics at the University of Pennsylvania, Philadelphia, PA
2021	Fellow of the American Society of Anesthesiologists (FASA)	The American Society of Anesthesiologists (ASA)
2021	Associate Member	Association of University Anesthesiologists (AUA)
2022	Mentor for Pediatric Anesthesiology Fellow Award for Excellence in Anesthesiology Research	Children's Hospital Los Angeles, Los Angeles, CA
2022	WOW Award for Excellence and Innovation in Graduate Medical Education	Office of Graduate Medical Education, Children's Hospital Los Angeles, Los Angeles, CA
2023	Mentor/Senior Author for Pediatric Critical Care Fellow receiving the STAR Research Achievement Award	Society of Critical Care Medicine 2023 Critical Care Congress, San Francisco, CA

2023	Rising Star in Pediatric Anesthesia	Society for Pediatric Anesthesia, Annual Meeting, Austin, TX
2023	Mentor/Co-Author for Pediatric Emergency Medicine Fellow receiving the Academic Pediatric Association's Ludwig-Seidel Award for best abstract in Pediatric Emergency Medicine	Pediatric Academic Societies 2023 Annual Meeting. Washington, DC. April 27–May 1, 2023.

TEACHING

DIDACTIC TEACHING:

University of Rochester

2001-2003	Organic Chemistry I	10 Hours / Week	Teaching Fellow
2001-2003	Organic Chemistry II	10 Hours / Week	Teaching Fellow

Yale University School of Epidemiology and Public Health

2004-2005	Decision Making and Cost-Effectiveness	10 Hours / Week	Teaching Fellow
2005	Data Management and Analysis	10 Hours / Week	Teaching Fellow

Stony Brook University School of Medicine

2007	Epidemiology and Biostatistics in Medicine		Teaching Assistant
2009-2011	Rising Leaders in Medicine		Lecturer on health economics and decision making in Medicine
2010-2013	Clinical Procedural Skills Course for Medical Students		Lecturer and workshop assistant

University of Pittsburgh School of Medicine

2014	Clinical Skills and Airway Management for Medical Students and Front Line Providers		Lecturer and simulation teacher for pediatric anesthesia and airway management
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The Children's Hospital of Philadelphia / The Perelman School of Medicine at the University of Pennsylvania

2015-2020	"Peripheral Nerve Blocks for Pediatric Patients," Anesthesiology Resident Lecture	Bi-Monthly	Lecturer
2015-2017	"Cost-Effectiveness and Decision Making in Medicine," Pediatric Anesthesiology Fellowship Lecture	1 Hour / Year	Lecturer
2017-2019	"Occupational Hazards and the Operating Room," Pediatric Anesthesiology Fellowship Lecture	1 Hour / Year	Lecturer

2018-2020	“Controversies and Decision Making in Pediatric Anesthesia Cases: Comparison of the Literature and Practice Variation at Major Academic Children’s Hospitals,” Pediatric Anesthesiology Fellowship Lecture	1 Hour / Year	Lecturer
2018	“Epidemiologic Approaches to Education in Pediatric Anesthesiology in Kenya: A Population Based Approach to Medical Education,” Lecture in Global Health Projects Series	1 Hour/Year	Lecturer
2019-2020	“Value-Based Healthcare and Health Economic Analysis,” Pediatric Anesthesiology Fellowship Lecture	1 Hour / Year	Lecturer

Children’s Hospital Los Angeles / Keck School of Medicine at the University of Southern California

2021-2023	“Peripheral Nerve Blocks for Pediatric Patients,” Anesthesiology Resident Lecture	Bi-Monthly	Lecturer
2021-2023	“Informatics and Data Analytics in Quality Improvement,” Pediatric Anesthesiology and Critical Care Fellowship Quality Improvement Education Course	1 Hour / Year	Lecturer
2023-Current	“Quality Improvement Science in Pediatric Anesthesiology and Critical Care Medicine,” Pediatric Anesthesiology and Critical Care Medicine Fellowship Lecture	1.5 Hours / Year	Co-Course Director
2023-Current	“Building the Future of Pediatric Health Care Delivery with Spatial Analytics,” Pediatric Residents IMPACT Pediatric Course	1 Hour / Year	Lecturer

University of Southern California Dornsife College of Letters, Arts, and Sciences

2022	SSCI 490: Directed Research (Geodesign)	Spring Semester	Faculty
2023	Ph.D. Dissertation Advisor for Andy R. Kampfschulte, M.S. in Population, Health, and Place Program.		Dissertation Advisor

University of Southern California Keck School of Medicine

2023	PM 597: Capstone in Public Health	1.5 Hour/Year	Invited Guest Faculty
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AIC Kijabe Hospital / Vanderbilt University Department of Anesthesiology

2018	“Anesthesia care for the pediatric neurosurgery patient”	1 Hour	Lecturer
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2018	"Anesthesia for neonates and infants: International perspectives and considerations"	1 Hour	Lecturer
2018	"Anesthesia considerations for pediatric general surgery: An epidemiology approach to case-based global health education"	1 Hour	Lecturer
2018	"Anesthesia considerations for neonates with congenital heart disease for non-cardiac surgery"	1 Hour	Lecturer
2018	"Management of Pediatric Anesthesia Emergencies: Optimizing resources and teams in limited resource situations"	1 Hour	Lecturer
2019	"Pre-operative Risk Assessment and Resource Considerations for Managing Children with Congenital Heart Disease for Non-Cardiac Surgery"	1 Hour	Lecturer
2019	"Management of Pediatric Anesthesia Emergencies: Optimizing Resources and Teams in Low- and Middle-Income Countries"	1 Hour	Lecturer
2019	"Pediatric Advanced Life Support (PALS): How to save a little life...with limited operating room resources"	1 Hour	Lecturer

University of Nairobi - Pediatric Anesthesiology Fellowship Program

2018	"Anesthesia considerations for neonatal surgical emergencies: An epidemiology approach to case-based global health education"	1 Hour	Lecturer
2018	"Pediatric Anesthesia: Global Perspectives on Local Cases"	1 Hour	Lecturer
2019	"Anesthesia Management of Pediatric Airway Foreign Body in Low- and Middle-Income Countries"	1 Hour	Lecturer
2019	"Management of Pediatric Anesthesia Emergencies: Optimizing Resources and Teams in Low- and Middle-Income Countries"	1 Hour	Lecturer
2019	"Pediatric Advanced Life Support (PALS): How to save a little life...with limited operating room resources"	1 Hour	Lecturer
2019	"Pediatric Airway Management: Basic, Advanced and Emergencies in Low- and Middle-Income Countries"	4 Hours	Instructor

CME COURSES DEVELOPED

2018	Society for Technology in Anesthesia Annual Meeting, “Data Driven Innovation and Technology in Anesthesia”	21.25 AMA PRA Category I Credits	Program Co-Chair
2018	Society for Technology in Anesthesia Annual Meeting, “Data Driven Innovation and Technology in Anesthesia”	9.25 LLSA Credits for ABPM MOC Part II (Clinical Informatics)	Program Co-Chair

UNDERGRADUATE, GRADUATE AND MEDICAL STUDENT (OR OTHER) MENTORSHIP:

2017-2019	Andrew Becker, M.D., M.P.H.	MD/MPH Student – University of Pennsylvania School of Medicine	“Geographic Analysis of Pay-for-Quality: Evaluating Readmission Risk by Proximity to Hospital” (MPH Thesis Advisor)
2020-2022	Phillip Quiroz, M.D., M.P.H.	MD/MPH Student – Keck School of Medicine at the University of Southern California	“Disparities in Telehealth use in Pediatric Pain Patients” (MPH Thesis Advisor)
2021-2022	Alicia Adiwidjaja, B.S.	B.S. Geodesign – University of Southern California	“Using spatial analysis to understand the environmental and neighborhood-level risk factors in pediatric health care at the Children’s Hospital Los Angeles”
2021-2023	Emily Peng	B.S. Environmental Sciences (Expected 2024) – University of Southern California	“Exploring geographic dimensions in environmental justice in pediatric health care at the Children’s Hospital Los Angeles”
2022-2023	Yiyun (Jessica) Zhang	B.S. Urban Planning B.S. Geodesign (Expected 2024) – University of Southern California	“Using spatial analysis to understand food desert epidemiology among children receiving care at the Children’s Hospital Los Angeles”
2022-Current	Junhong Duan, B.A., M.S.	Ph.D. Student in Population, Health, and Place– University of Southern California	“Travel-time and Network Analysis of Pediatric Patients receiving inpatient and outpatient care the Children’s Hospital Los Angeles: Leveraging Spatial Data Science and Clinical Informatics to Understand Access and Disparities of Care”
2022-Current	Andy R. Kampfschulte, M.S.	Ph.D. Student in Population, Health, and Place – University of Southern California	“Real-World Public Health and Health Care Implications of the Modifiable Areal Unit Problem: Leveraging Computational and Spatial Modeling”
2023-Current	Kelly Kwok	B.S. Geodesign (Expected 2024) – University of Southern California	“Weather and Extreme Weather Exposure in Children at the Children’s Hospital Los Angeles”

2023-Current	Katherine Robinson	B.S. Environmental Sciences (Expected 2024) – University of Southern California	“Epidemiology of Environmental Exposures and Children at the Children’s Hospital Los Angeles”
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POSTGRADUATE MENTORSHIP:

2015-2016	Lauren Lobaugh, MD	Assistant Professor of Anesthesiology, Texas Children’s Hospital and Baylor College of Medicine	
2016-2017	Loren Babirak, MD	Assistant Professor of Anesthesiology and Critical Care, The Children’s Hospital of Philadelphia and the Perelman School of Medicine at the University of Pennsylvania	
2016-2017	Michael P. Puglia II, MD PhD	Assistant Professor of Anesthesiology, Mott Children’s Hospital and the University of Michigan	
2016-2017	Kuntal R. Jivan, MD	Assistant Professor of Anesthesiology, Georgetown University School of Medicine	
2016-2017	Ponney R. Palanisamy, MD	Associate Clinical Instructor of Anesthesiology, Perioperative Care and Pain Medicine, New York University Langone Health System	
2017-2018	Olga F. Martins, MD	Staff Anesthesiologist, Department of Anesthesiology, Northwell Health Staten Island	
2017-2018	Jordan M. Ruby, MD	Clinical Instructor of Anesthesiology, Weill Cornell Medical College and Attending Anesthesiologist at the Hospital for Special Surgery	
2017-2018	Alicia A. Henderson, MD	Assistant Professor of Anesthesiology and Critical Care, The Children’s Hospital of Philadelphia and the Perelman School of Medicine at the University of Pennsylvania	
2017-2018	Sible Anthony, MD	Assistant Professor of Clinical Anesthesiology, Yale School of Medicine	
2018-2019	Rodrigo Daly-Guris, MD	Assistant Professor of Anesthesiology and Critical Care, The Children’s Hospital of Philadelphia and the Perelman School of Medicine at the University of Pennsylvania	
2018-2019	Grace Shih, MD	Assistant Professor of Anesthesiology and Critical Care, The Children’s Hospital of Philadelphia and the Perelman School of Medicine at the University of Pennsylvania	
2017-2022	Andrew Becker, MD MPH	Resident Physician, Department of Anesthesiology and Critical Care, The University of Pennsylvania	
2021-2022	Daniel Kang, MD	Pediatric Anesthesiology Fellow, Department of Anesthesiology Critical Care Medicine, Children’s Hospital Los Angeles	
2021-Current	Justin Jones, MD	Pediatric Critical Care Medicine Fellow, Department of Anesthesiology Critical Care Medicine, Children’s Hospital Los Angeles	
2022-2023	Hebert Daniel Adams, MD	Pediatric Anesthesiology Fellow, Department of Anesthesiology Critical Care Medicine, Children’s Hospital Los Angeles	
2022-Current	Alexa Monroy, MD	Pediatric Emergency Medicine Fellow, Department of Emergency and Transport Medicine, Children’s Hospital Los Angeles	

2022-Current	Rachel Rosenthal, MD	Pediatric Critical Care Medicine Fellow, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles
2023-Current	Karen Deslouches, MD	Pediatric Hospital Medicine Fellow, Department of Pediatrics, Children's Hospital Los Angeles

SERVICE

DEPARTMENT SERVICE:

2012-2013	Member, Core Curriculum Committee on Education	Department of Anesthesiology, Stony Brook University Medical Center
2012-2013	Member, Resident Admissions Committee	Department of Anesthesiology, Stony Brook University Medical Center
2015-2018	Interviewer, Pediatric Anesthesiology Fellowship Program	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2015-2020	Interviewer for prospective faculty candidates	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2015-2020	Member, Section of Biomedical Informatics	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2016-2018	Course Director, Pediatric Anesthesiology Fellowship Education Didactic Curriculum	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2016-2020	Elected Member, Research Council	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2016-2020	Member, Pediatric Anesthesiology Fellowship Program Leadership Group	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2016-2020	Member, Pediatric Anesthesiology Fellowship Program Evaluation Committee	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2017-2020	Member, Pediatric INQUIRE (Informatics, Quality Improvement and Research) Group	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2018-2020	Member, Committee on Quality and Safety	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2019-2020	Co-Lead on Quality Improvement Initiative, "Improving the appropriate utilization of cephalosporin antibiotics for surgical prophylaxis among penicillin allergic labeled pediatric patients"	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2019-2020	Member, Data Governance Committee	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia

2020-Present	Member, Quality Assurance and Quality Improvement Committee	Division of Anesthesiology, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles
2021-Present	Elected Member, Research Oversight Committee	Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles
2021-Present	Member, Compensation Committee Task Force	Division of Anesthesiology, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles
2021-Present	Member, New Anesthesia Machine Task Force	Division of Anesthesiology, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles
2021-Present	Member, Informatics Committee	Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles
2021-Present	Member, Pediatric Anesthesiology Fellowship Clinical Competency Committee	Division of Anesthesiology, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles
2021-2022	Co-Chair, Division Chief of Anesthesiology Search Task Force	Division of Anesthesiology, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles
2022-Present	Member, Information Services Leadership Committee	Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles
2022	Co-Chair, Search Committee for Chief of Anesthesiology, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles	Division of Anesthesiology, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles

MEDICAL SCHOOL SERVICE:

2005-2009	Co-Founder and Director, The Stony Brook Student Run Free Clinic	SUNY Stony Brook School of Medicine
2008-2009	Steering Committee Member, The Stony Brook Student Run Free Clinic	SUNY Stony Brook School of Medicine
2007-2009	Elected Member, Honor Code Committee	Dean's Office, SUNY Stony Brook School of Medicine

UNIVERSITY SERVICE:

2018-2020	Capstone Panelist, MPH Capstone Presentation Committee	MPH Program, Center for Public Health Initiatives, University of Pennsylvania
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PROFESSIONAL SERVICE:

2003	Health Policy Analyst	Children's Defense Fund, New York, NY
2004	Policy Analyst	Valley Women's Health Coordination Center at Griffin Hospital, Derby, CT
2004-2006	Clinical Outcomes and Quality Analyst	Bridgeport Community Health Center, Bridgeport, CT

2014-Present	Member, Committee on Biomedical Informatics & Technology	Society for Pediatric Anesthesia
2015-Present	Member, Committee on Quality & Safety	Society for Pediatric Anesthesia
2017-Present	Elected Member, Committee on Technology	Anesthesia Patient Safety Foundation
2019-Present	Member, Health and Medical Geography Specialty Group	American Association of Geographers
2019-Present	Member, Spatial Analysis and Modeling Specialty Group	American Association of Geographers
2019-Present	Hospital Lead Member, Wake Up Safe	Wake Up Safe (The Pediatric Anesthesia Quality Improvement Initiative), Society for Pediatric Anesthesia
2019-Present	Ambassador, Social Media Committee	Society for Technology in Anesthesia
2019-Present	Chair, Communications Committee	Society for Technology in Anesthesia
2021-Present	Editorial Board, Visual Abstracts	Anesthesiology
2021-Present	Adjunct Member, ASA Committee on Informatics and Information Technologies	American Society of Anesthesiologists
2021-2023	Invited Member, APSF Patient Safety Advisory Committee on Clinical Deterioration	Anesthesia Patient Safety Foundation
2021-Present	Invited Member, APSF Patient Safety Advisory Committee on Infectious Diseases	Anesthesia Patient Safety Foundation
2021-Present	Advisor, Women's Empowerment and Leadership Initiative (WELI)	Society for Pediatric Anesthesia
2023-Present	Site Principal Investigator, Wake Up Safe (WUS) Pediatric Anesthesia Quality Improvement Initiative and National Registry	Wake Up Safe
2023-Present	Member, Association of University Anesthesiologists (AUA) Leadership Advisory Board	Association of University Anesthesiologists
2023-Present	Adjunct Member, ASA Committee on Performance and Outcomes Measurement	American Society of Anesthesiologists
2023-Present	Co-Chair, APSF Patient Safety Advisory Committee on Clinical Deterioration	Anesthesia Patient Safety Foundation

CONSULTANTSHIPS AND ADVISORY BOARDS:

2015-2017	Clinical Advisor to the Founders/Board	SurMD/SurDoc Corp., Sunnyvale, CA
2015-2017	Clinical Fellow Advisor	Doximity, Inc., San Francisco, CA
2022-Current	Clinical Advisory Board Member	Consortium for Technology and Innovation in Pediatrics (CTIP), Los Angeles, CA
2023-Current	Consultant, Perioperative Care Advisory Board	GE Healthcare, Chicago, IL

PROFESSIONAL SOCIETY MEMBERSHIPS:

<i>International</i>	
2009-2019	International Anesthesia Research Society
2022-Present	International Society of Exposure Science

National

2003-2006	American Public Health Association
2009-Present	American Society of Anesthesiologists
2012-Present	Society for Pediatric Anesthesia
2015-Present	Society for Technology in Anesthesia
2017-Present	Anesthesia Patient Safety Foundation
2019-Present	American Association of Geographers
2021-Present	Association of University Anesthesiologists

Regional

2009-2013	New York State Society of Anesthesiologists
2009-2013	Suffolk County Medical Society
2013-2020	Pennsylvania Society of Anesthesiologists
2015-2017	District of Columbia Society of Anesthesiologists
2021-Current	California Society of Anesthesiologists

COMMUNITY SERVICE:

2005-2009	Co-Founder and Director	Stony Brook HOME (Health Outreach and Medical Education, The Stony Brook Student Run Free Clinic, Stony Brook, NY	Co-Founder and Director of the first multidisciplinary student run free clinic on Long Island that is still in operations serving thousands of uninsured and low socioeconomic patients. Developed and employed electronic health records and analytics into patient care processes
2008-2009	Steering Committee Member	Stony Brook HOME (Health Outreach and Medical Education, The Stony Brook Student Run Free Clinic, Stony Brook, NY	Co-Founder and member of steering committee to evaluate and create strategy to support the financial and clinical success of the free clinic
2013	Volunteer Anesthesiologist	Uplift Internationale Medical Mission, Taghoy Facial Cleft Clinic, Siargao Island, Philippines	Medical volunteer for cleft palate and cleft lip mission trip. Cared for perioperative and intraoperative needs of pediatric patients
2014	Clinical Mentor	MIT/Harvard University Hacking Pediatrics Program – Hackathon 2.0, Boston, MA.	Invited volunteer advisor to provide clinical insight and support for Hackathon teams working on Pediatric health care data science and digital health solutions
2018	Volunteer Pediatric Anesthesiologist	AIC Kijabe Hospital & World Federation Society of Anesthesiologists Pediatric Anesthesiology Fellowship / Kijabe, Kenya	Medical volunteer caring for pediatric patients and didactic teaching of World Federation Society of Anesthesiologists Pediatric Anesthesiology Fellows and Kenya Registered Nurse Anesthesia students

2019	Volunteer Pediatric Anesthesiologist	AIC Kijabe Hospital & World Federation Society of Anesthesiologists Pediatric Anesthesiology Fellowship / Kijabe, Kenya	Medical volunteer caring for pediatric patients and didactic teaching of World Federation Society of Anesthesiologists Pediatric Anesthesiology Fellows and Kenya Registered Nurse Anesthesia students
2020	Volunteer	ASA/APSF COVID-19 Anesthesia Machines as ICU Ventilators Hotline	Served as volunteer on a hotline to receive technical and clinical questions regarding the conversion of Anesthesia machines to ICU ventilators during pandemic

RESEARCH AND SCHOLARSHIP

EDITORSHIPS AND EDITORIAL BOARDS:

2010-Present	Guest Editor	Journal of Anesthesia and Clinical Research
2019-Present	Editor-in-Chief	Interface, Newsletter of the Society for Technology in Anesthesia
2020-Present	Editorial Staff	Anesthesia Patient Safety Foundation (APSF) Newsletter – Technology Section
2021-Present	Editorial Board	Visual Abstracts, Anesthesiology
2021-2022	Guest Co-Editor	Invited Guest Co-Editor of the Special Issue “Advances in Pediatric Anesthesiology, Pain, and Perioperative Medicine,” in the journal Children

MANUSCRIPT REVIEW:

2009	The Journal of Perinatology
2010	The Lancet
2017	Anesthesiology
2017	Journal of Anesthesia and Clinical Research
2018	Health Policy and Technology
2019-Present	Applied Clinical Informatics
2019	Journal of Medical Systems
2019-Present	Journal of Medical Internet Research
2019-Present	Pediatric Anesthesia
2020-Present	International Journal of Population Data Science
2020-Present	Anesthesia and Analgesia Practice
2020-Present	BMJ Case Reports
2020-Present	Transactions in GIS
2021-Present	Canadian Journal of Anesthesia
2021-Present	Hospital Pediatrics
2022-Present	Journal of the American Medical Informatics Association
2022-Present	Children

MAJOR AREAS OF RESEARCH INTEREST

1. Spatial Analytics: Studying the impact of location and social determinants of health on the pediatric perioperative experience
2. Clinical Informatics and Pediatric Patient Safety

3. Epidemiology of Pediatric Anesthesia and Perioperative Care
4. Cost-Effectiveness and Decision Modeling in Medicine

GRANT SUPPORT - PAST:

Jonathan M. Tan, MD MPH MBI

FY 2006

FAER Medical Student Anesthesia Research Fellowship

Health Economic Analysis in Anesthesiology: Studying the Cost-Effectiveness of Neuraxial Analgesia for External Cephalic Version

- Mentored by Dr. Alex Macario and Dr. Brendan Carvalho at Stanford University, I conducted health economic analysis research in obstetric anesthesiology. Early exposure to academic anesthesiology was instrumental in my pursuit of research in anesthesiology and perioperative medicine.
- In this role, I conducted the cost-effectiveness analysis and cost-analysis models that utilized bayesian analysis and monte-carlo simulations in order to under the economics of neuraxial analgesia for obstetric procedures. This fellowship and grant support as a medical student, led to three peer-reviewed publications, four scientific abstracts, and three national podium presentations including at the FAER/ASA Annual Research Meeting, the prestigious Zuspan Award Presentation Session and Resident Award Session at the Society for Obstetric Anesthesia and Perinatology (SOAP) Annual Meeting.
- The FAER MSARF was a critical foundation for my pursuit of pediatric anesthesiology and research in perioperative medicine.

Jonathan M. Tan, MD MPH MBI (PI)

FY 2018

McCabe Fund Pilot Award and the University of Pennsylvania

Data-Driven Decision Support Using Geolocation and Socioeconomic Factors to Improve Pediatric Peri-Operative Access and the Patient Surgical Experience at a Children's Hospital

- Combined traditional data from electronic health records and non-traditional datasets from census and business intelligence to understand the impact of locaton and social determinants of health on the pediatric perioperative experience.
- Using spatial analytics and novel methods with the electronic health record system, we were able to predict neighborhoods of patients at highest risk for showing up late and not following pre-operative instructions.

Principal Investigator

\$22,966

Jonathan M. Tan, MD MPH MBI (PI)

FY 2020

Leonard Davis Institute of Health Economics at the University of Pennsylvania

Understanding the Risk of COVID-19 Exposure Based on a Strategy of Routine Pre-Procedure Screening During a Pandemic

- Reviewed COVID-19 screening test literature and created mathematical simulations to demonstrate the risks and benefits of pre-procedure COVID-19 screening
- Presented pragmatic solutions based on modeling findings to reduce the risk of false negative and improve healthcare worker and patient safety for patients undergoing anesthesia and surgical procedures

Principal Investigator

\$1,250

Jonathan M. Tan, MD MPH MBI (PI)

FY 2021 – FY 2022

University of Southern California Undergraduate Research Associates Program

Using spatial analysis to understand the environmental and neighborhood-level risk factors in pediatric health care at the Children's Hospital Los Angeles

- Funding provided by the USC Office of the Provost for supporting undergraduate research mentorship and research opportunities
- Developed HIPAA compliant spatial linkage and analysis methods in order to understand the associations of environmental and social determinant of health risk factors on pediatric patients that required the pediatric intensive care unit and general anesthesia for surgical procedures.

Principal Investigator

\$6,600

Jonathan M. Tan, MD MPH MBI (Co-I)

FY 2022 – FY 2023

Society for Pediatric Anesthesia Mission Driven Mentoring

Program Grant – Committee on Diversity Equity and Inclusion

The Impact of the Affordable Care Act Medicaid Expansion on Pediatric Surgery Outcomes Using the Society of Thoracic Surgeons Congenital Heart Surgery Database

- To evaluate whether Medicaid expansion is associated with improvement in pediatric cardiac surgery outcomes in the United States

Co-Investigator

\$5,000

GRANT SUPPORT - CURRENT:

Jonathan M. Tan, MD MPH MBI (PI)

FY 2021 – FY 2024

Anesthesia Patient Safety Foundation (APSF) and the

Foundation for Anesthesia Education and Research (FAER)

Mentored Research Training Grant

The Impact of Air Pollution and Neighborhood-Level Risk Factors on Pediatric Perioperative Respiratory Adverse Events

- Prospective cohort study that examines the spatiotemporal effects of indoor and outdoor air pollution exposure and neighborhood-level socioeconomic risk factors that are associated with perioperative respiratory adverse events in children undergoing general anesthesia.

Principal Investigator

\$300,000

Jonathan M. Tan, MD MPH MBI (PI)

FY 2022 – FY 2023

University of Southern California Undergraduate Research

Associates Program

Spatial science approaches to understanding the social determinant of health risk factors in pediatric health care at the Children's Hospital Los Angeles

- Funding provided by the USC Office of the Provost for supporting undergraduate research mentorship and research opportunities
- Utilized innovative spatial science, public health, and clinical informatics methods to study the epidemiology of outdoor air quality exposure and other social determinant of health measures among pediatric patients in a children's hospital.

Principal Investigator

\$6,600

Jonathan M. Tan, MD MPH MBI (PI)

FY 2023 – FY 2024

Southern California Environmental Health Sciences Center
and University of Southern California Center for Translational
Research on Environmental Health – Environmental Health
Pilot Projects Program

(Supported by NIEHS grant #P30ES007048).

The Epidemiology of Environmental Health Disparities in Children Across a Pediatric Healthcare System

- Retrospective study to understand the epidemiology of environmental health disparities in children receiving care across a single quaternary pediatric healthcare system. Environmental health exposures include heat stress, exposure to extreme weather events, access to green space, and index measures of environmental justice.
- Using spatial data science and clinical informatics tools to develop a risk stratification model identifying geographic areas where pediatric patients are most likely to experience the largest disparities in environmental health exposure and develop evidence-based recommendations for health systems to optimally use resources toward improving the health of specific communities in response to the health effects of climate change.

Principal Investigator

\$49,996

Jonathan M. Tan, MD MPH MBI (PI)

FY 2023 – FY 2024

University of Southern California Undergraduate Research
Associates Program

Applications of spatial analytics to improve pediatric health care delivery at the Children's Hospital Los Angeles

- Funding provided by the USC Office of the Provost for supporting undergraduate research mentorship and research opportunities
- Utilized innovative spatial science, public health, and clinical informatics methods to study the epidemiology of social determinants of health risk factors for pediatric patients

Principal Investigator

\$6,600

Jonathan M. Tan, MD MPH MBI (PI)

FY 2023 – FY 2024

The Saban Research Institute of the Children's Hospital Los
Angeles Pre-Doctoral Award

Understanding the Role of Environment in Pediatric Health: Integrating Spatiotemporal Models into Clinical Care

- To describe the epidemiology of transit burden in pediatric access-to-care and characterize the transit related risk factors in the utilization of pediatric healthcare services across a pediatric healthcare system.
- To develop an individual-level geographic access-to-care to care model for a healthcare system in the Greater Los Angeles Region.
- To provide mentorship and research experience for pre-doctoral graduate student Andrew R. Kampfschulte, MS.

Principal Investigator and Mentor

\$39,900

GRANT SUPPORT – (PENDING DECISION):

Burroughs Wellcome Fund - Climate and Health
Interdisciplinary Award

Development of a climate change surveillance network for pediatric health systems in the United States

- To build a multicenter digital surveillance system to study the future health impacts of climate change dynamics on infants and children across pediatric health systems in the United States.

Principal Investigator

\$375,000 (Application in Review)

ISSUED AND PENDING PATENTS:

Tan JM, Cheng P. Remote Image Capture and Processing of the Tuberculosis (TB) Skin Test. U.S. Patent Application #62044151, filed August 2014. Patent Pending.

INVITED LECTURES, SYMPOSIA, KEYNOTE ADDRESSES

2006	Invited Lecture	“National Health Care: What do the People think?” Stony Brook University School of Medicine C3 (Culture, Competency, and Careers) Lecture Series, Stony Brook, NY
2009	Invited Lecture	“...Because its Cost-Effective?” Stony Brook University School of Medicine Rising Leaders in Health Care Lecture Series, Stony Brook, NY
2010	Invited Lecture	“Economic Analysis, Cost-Effectiveness and Medicine” Stony Brook University School of Medicine Rising Leaders in Health Care Lecture Series, Stony Brook, NY
2011	Invited Lecture	“Cost-Effectiveness in Medicine: An Introduction to Health Economics” Stony Brook University School of Medicine Rising Leaders in Health Care Lecture Series, Stony Brook, NY
2013	Invited Symposia	“Peri-Operative Staff and Hazards in the Operating Room” Stony Brook Medicine – Ambulatory Surgery Center Perioperative Staff, Stony Brook, NY
2016	Invited Lecture	“EEG Processing and Detecting Changes to Pulse Oximetry Monitoring” Society for Technology in Anesthesia Annual Meeting Engineering Challenge, West Palm Beach, FL
2016	Invited Lecture	“Pro: Millennial’s are unique and need to be taught differently” Pro/Con Debate, Society for Pediatric Anesthesia Annual Meeting, Colorado Springs, CO
2016	Invited Lecture	“Risk Factors Associated with Unanticipated Post-Operative Intubation Following Pediatric Surgery: Using the ACS NSQIP-Pediatric 2012-2014 Database to Understand and Improve Practice” American College of Surgery NSQIP Annual Meeting, San Diego, CA
2016	Invited Lecture	“Where You Live Matters: Using GIS and SES Factors to Improve Pediatric Peri-Operative Medicine” GIS User Group, PolicyLab, The Children’s Hospital of Philadelphia
2017	Invited Lecture / Problem Based Learning Moderator	“How to get an ‘A’ for a Nuss Procedure: Management of Arrhythmias, Arrests, Allergies and Analgesia!” Problem Based Learning Discussion at the SPA-AAP Pediatric Anesthesiology Annual Meeting, Austin, TX

2017	Invited Lecture / Problem Based Learning Moderator	“Is there a Doctor On-Board? – Unique Challenges of an In-Flight Emergency for Pediatric Patients” Problem Based Learning Discussion at the SPA 31st Annual Meeting, Boston, MA
2019	Invited Workshop Leader	“Immersive Technologies in Perioperative Anxiety and Chronic Pain Management: Virtual and Augmented Reality” SPA Pediatric Anesthesiology Annual Meeting, Houston, TX
2019	Invited Lecture	“Applications of Geographic Information Systems (GIS) in Pediatric Health Access and Utilization: Current and Future Research Directions” The American Association of Geographers Annual Meeting, Washington, DC
2019	Invited Lecture	“Unique Anesthesia Considerations for Non-Cardiac Surgery for Children with Congenital Heart Disease in Low- and Middle-Income Countries” Kijabe Hospital 8th Annual Anesthesia Conference: Principles and Perspectives on Pediatric Anesthesia and Pain Management, Nyeri, Kenya
2019	Invited Lecture	“Anesthesia and Perioperative Management of Pediatric Syndromes and Development” Kijabe Hospital 8th Annual Anesthesia Conference: Principles and Perspectives on Pediatric Anesthesia and Pain Management, Nyeri, Kenya
2019	Invited Lecture	“Laryngospasm and the Pediatric Patient with Upper Respiratory Infections in Limited Resource Environments” Kijabe Hospital 8th Annual Anesthesia Conference: Principles and Perspectives on Pediatric Anesthesia and Pain Management, Nyeri, Kenya
2019	Invited Lecture	“Advanced Pediatric Airway Management for Anesthesia Care in Low- and Middle-Income Countries” Kijabe Hospital 8th Annual Anesthesia Conference: Principles and Perspectives on Pediatric Anesthesia and Pain Management, Nyeri, Kenya
2019	Invited Lecture	“Applications of Geospatial Analysis and Electronic Health Records in a Children’s Hospital” 18th International Medical Geography Symposium, Queenstown, New Zealand
2019	Invited Lecture / Problem Based Learning Moderator	“Pediatric Burn Trauma: Challenges in Anesthesia and Pain Management” SPA 33rd Annual Meeting, Orlando, FL
2019	Invited Lecture	“Leveraging Electronic Health Records and Administrative Datasets to Understand Social Determinants of Health: Opportunities and Challenges” 4th International Conference on Administrative Data Research, Cardiff, UK
2020	Invited Lecture	“Geospatial Analysis and Location Intelligence Insights in Perioperative Care” Society for Technology in Anesthesia Annual Meeting, Austin, TX
2020	Invited Workshop Leader	“Immersive Technologies in Perioperative Anxiety and Chronic Pain Management: Virtual and Augmented Reality” SPA Pediatric Anesthesiology Annual Meeting, Atlantis, Paradise Island, Bahamas
2020	Invited Lecture / Problem Based Learning Moderator	“E-Cigarettes and the Pediatric Patient: What are you smoking?” SPA Pediatric Anesthesiology Annual Meeting, Atlantis, Paradise Island, Bahamas
2020	Invited Lecture	“Where You Live Matters: Leveraging Geographic Information Systems and Electronic Health Records to Improve Pediatric Perioperative Care” Session titled, “Advances and Applications of Technology in Pediatric Anesthesia: Apps, Analytics, Airways, Augmented Reality, and More,” International Anesthesia Research Society (IARS) Annual Meeting, San Francisco, CA (*Delayed due to COVID-19 Pandemic)

2020	Invited Lecture	<p>“Spatial Linkage of Electronic Health Records and Census Data in a Children’s Hospital” International Population Data Linkage Network Conference, Adelaide, South Australia (Virtual Presentation)</p>
2020	Invited Lecture	<p>“Improving Antibiotic Choice for SSI Prophylaxis in Pediatric Patients Documented as Pencillin Allergic” SPA 34th Annual Meeting and Wake Up Safe Quality Improvement Fall Education Session, Washington, DC (Virtual Presentation)</p>
2021	Invited Lecture	<p>“Addressing Population Health with an Address: Using Geospatial Analysis to Improve Quality of Care in a Children’s Hospital” International Forum on Quality & Safety in Healthcare, London, UK (Conference cancelled due to COVID-19)</p>
2021	Invited Lecture	<p>“Exploring the impact of air pollution exposure on pediatric anesthesia patients at a children’s hospital: Spatial Applications of Electronic Health Records” The American Association of Geographers Annual Meeting, Seattle, WA</p>
2021	Invited Lecture	<p>“Improving antibiotic choice for surgical site infection prophylaxis in pencillin allergic patients in a children’s hospital: A quality improvement initiative.” American College of Surgery Quality and Safety Conference, Virtual Presentation</p>
2021	Invited Panelist	<p>“Development of Best Practices to Improve Antimicrobial Stewardship in Pediatric Surgery: Defining the Role for Prioritization and Implementation Strategy.” American College of Surgery Quality and Safety Conference, Virtual Presentation</p>
2021	Invited Lecture	<p>“A Multidisciplinary Strategy to Reduce Use of Inappropriate Surgical Prophylaxis in Patients with Pencillin Allergies.” American College of Surgery Quality and Safety Conference, Virtual Presentation</p>
2021	Invited Lecture	<p>“Pediatric Quality Improvement Informatics and Analytics.” Wake Up Safe Fall Conference, San Diego, CA</p>
2021	Invited Lecture	<p>“Optimizing Health Care Delivery with Spatial Data Science.” Artificial Intelligence/Machine Learning in Pediatric Research: Medical & Pharmaceutical Perspectives Symposium, Hosted by Johns Hopkins University All Children’s Hospital, Virtual Presentation.</p>
2022	Invited Lecture	<p>“Social, Economic, and Environmental Determinants of Health in Pediatric Anesthesiology.” Society for Technology in Anesthesia Annual Meeting, Las Vegas, NV (Virtual)</p>
2022	Invited Lecture	<p>“Social Determinants of Health and Pediatric Anesthesiology: New Insights for Perioperative Medicine.” 60th Annual Clinical Conference in Pediatric Anesthesia, Anaheim, CA</p>
2022	Invited Lecture	<p>“Annual Ambient Air Quality Exposure Among Pediatric Anesthesia Patients in a Children’s Hospital: Exploring Environmental Exposure and Risks of Perioperative Respiratory Adverse Events.” International Society of Exposure Science 2022 Annual Meeting, Lisbon, Portugal. <i>Unable to attend in-person event due to COVID-19 restrictions.</i></p>
2022	Invited Lecture	<p>“Innovations in Clinical Informatics to Understand the Social and Environmental Determinants of Health in Pediatric Anesthesiology, Pain, and Perioperative Medicine.” 70th Annual American Osteopathic College of</p>

Anesthesiologists Annual Convention & Conclave/Vital Anesthesia Practice Optimization Review, Phoenix, AZ

2022	Invited Lecture and Panelist	“Reimagining the Future of Pediatric Healthcare with Air Quality and Environmental Data.” Accuweather and Plume Labs Climate Change & Extreme Weather Virtual Summit: Taking Action with Data. ClimateWeekNYC. (Virtual).
2022	Invited Lecture	“The Epidemiology and Health Impact of Air Quality in Pediatric Anesthesia and Perioperative Medicine.” Asian Australasian Congress of Anaesthesiologists (AACA) 2022 Meeting and 99 th Annual Meeting of The Korean Society of Anesthesiologists (KSA), Seoul, Korea.
2022	Invited Lecture	“Building the Future of Pediatric Health Care with Air Quality and Environmental Data.” The World Bank Data Development Partnership. The World Bank, Washington, DC.
2023	Invited Lecture	“Spatial Analytics for Health Care Systems in a Changing World.” Society for Technology in Anesthesia Annual Meeting, Las Vegas, NV.
2023	Invited Workshop Leader	“I want to do research...”: A Practical Approach to Getting Your First Clinical Research Project Off the Ground and Into a Journal. SPA Pediatric Anesthesiology Annual Meeting, Austin, TX.
2023	Invited Lecture	“Retrospective Research and the Electronic Health Record: Opportunities, Challenges, and Getting Started.” SPA Pediatric Anesthesiology Annual Meeting, Austin, TX.
2023	Invited Workshop Leader	“Immersive Technologies in Perioperative Anxiety and Chronic Pain Management: Virtual and Augmented Reality.” SPA Pediatric Anesthesiology Annual Meeting, Austin, TX.
2023	Invited Lecture and Panelist	“Build a Network to Build the Future.” Society for Education in Anesthesia 2023 Spring Meeting Session on “How to Network for Professional Success and for Promotion,” Seattle, WA.
2023	Invited Lecture	“Building a Sustainable Future in Health Care with Social and Environmental Determinants of Health Analytics.” Conference on “Sustainability in Anaesthesia” at the Oxford University, Oxford, England.
2023	Invited Panelist	“To reach net zero we need to address health inequity.” Conference on “Sustainability in Anaesthesia” at the Oxford University, Oxford, England.
2023	Invited Lecture	“Building the Future of Social and Environmental Determinants of Health for Pediatric Health Care Systems” Society for Pediatric Anesthesia 37 th Annual Meeting, San Francisco, CA.
2023	Invited Lecture	“Health Care Analytics – Linking Data to Clinical Processes and Decision Making.” Anesthesia Patient Safety Foundation Session on “Emerging Medical Technologies – A Patient Safety Perspective on Wearables, Big Data and Remote Care” at the American Society of Anesthesiology Annual Meeting, San Francisco, CA.
2023	Invited Lecture and Panelist	“Immersive Technologies that Supplement Pediatric Perioperative Care.” American Society of Anesthesiology Annual Meeting, San Francisco, CA.
2023	Invited Lecture	“Analytics and Patient Safety: Challenges, Opportunities, and a Path Forward.” Anesthesia Patient Safety Foundation Session on “Emerging Medical Technologies: A Patient Safety Perspective on Wearables, Big Data and Remote Care” at the New York State Society of Anesthesiologists 77 th PostGraduate Assembly in Anesthesiology, New York, NY.

2024	Invited Lecture	“Building the Future of Social and Environmental Determinants of Health in Pediatric Health Systems.” 62nd Annual Clinical Conference in Pediatric Anesthesia, Anaheim, CA
2024	Invited Lecture	“Immersive Technology Applications in Pediatric Perioperative Medicine,” Lecture in the Immersive Virtual Reality and Augmented Reality Technology Workshop.” 18 th World Congress of Anaesthesiologists, Singapore.
2024	Invited Workshop Leader	“Ultrasound-Guided Caudal Block, Single Injections, with Catheter Advanced Cephalad at the Lumbar or Thoracic Spine Level,” SPA-AAP Pediatric Anesthesiology Annual Meeting, Anaheim, CA.
2024	Invited Lecture	“Impact of Spatial Data Science on Patient Outcomes.” International Anesthesia Research Society, Seattle, WA.
2024	Invited Workshop Leader	“Calming the Storm: Navigating Pediatric Perioperative Anxiety for a Smooth Surgical Journey.” American Society of Anesthesiology Annual Meeting, Philadelphia, PA.

INVITED GRAND ROUNDS, CME LECTURES

2012	Grand Rounds	“Occupational Hazards Unique to Anesthesia Providers” Department of Anesthesiology, Stony Brook University Hospital, Stony Brook, NY
2015	Grand Rounds	“The LMA and the Neonatal Patient” Department of Neonatology, Washington Hospital Center, Washington, DC
2015	Grand Rounds	“Peri-Operative Anaphylaxis: Delayed and Non-Delayed Presentations” Division of Anesthesia, Sedation and Perioperative Medicine at The Children’s National Medical Center, Washington, DC
2017	CME Lecture	“Clinical Informatics in Pediatric Anesthesia: Current and Future Directions” Cutting Edge Topics in Pediatric Anesthesia, The Children’s Hospital of Philadelphia, Philadelphia, PA
2019	CME Workshop	“Managing Emergencies in Pediatric Anesthesia in Limited Resource Environments: Simulation Workshop” Kijabe Hospital 8 th Annual Anesthesia Conference: Principles and Perspectives on Pediatric Anesthesia and Pain Management, Nyeri, Kenya
2019	Grand Rounds	“Where You Live Matters: Leveraging Geospatial Analysis to Better Care for our Pediatric Patients” Department of Anesthesiology and Critical Care Medicine, The Children’s Hospital of Los Angeles, Los Angeles, CA
2019	Visiting Professor Seminar	“Is there a Doctor On-Board? Unique Challenges for an In-Flight Emergency for Pediatric Patients” Department of Anesthesiology, Vanderbilt University, Nashville, TN
2019	Grand Rounds	“Geospatial Analysis and Location Intelligence Insights to Improve Pediatric Perioperative Care” Department of Anesthesiology, Vanderbilt University, Nashville, TN
2020	Visiting Professor Seminar	“The Demographic Data Problem: How can we get better social determinants of health information on our pediatric patients?” Department of Anesthesiology, The Hospital for Sick Children, Toronto, Canada (*Delayed due to COVID-19 Pandemic)

2020	Grand Rounds	<p>“Where You Live Matters: Location Intelligence Insights to Improve Pediatric Care” Department of Paediatrics, The Hospital for Sick Children, Toronto, Canada (*Delayed due to COVID-19 Pandemic)</p>
2020	Grand Rounds	<p>“Perioperative Insights into Social Determinants of Health using Spatial Data Science” Perioperative Grand Rounds with the Department of Anesthesiology, Department of Surgery and Department of Critical Care, The Hospital for Sick Children, Toronto, Canada</p>
2021	Visiting Scholar	<p>“Understanding Social Determinants of Health to Improve Pediatric Perioperative Care” Department of Anesthesiology, Seattle Children’s Hospital, Seattle, WA (Virtual)</p>
2021	Grand Rounds	<p>“Where You Live Matters: Addressing Social and Environmental Determinants of Health in Pediatric Anesthesia and Pain Medicine” Department of Anesthesiology Critical Care Medicine, Children’s Hospital Los Angeles, Los Angeles, CA</p>
2022	Grand Rounds	<p>“Where You Live Matters: Innovative Approaches to Social Determinants of Health Using Spatial Data Science.” Department of Pediatrics, Children’s Hospital Los Angeles, Los Angeles, CA</p>
2023	Grand Rounds/Visiting Professor	<p>“Addressing Social and Environmental Determinants of Health in Pediatric Anesthesiology and Pain Medicine.” Department of Anesthesiology, University of Miami, Miami, FL</p>
2023	Visiting Scholar	<p>“Where You Live Matters: Social and Environmental Determinants of Health in Anesthesia and Pain Medicine.” Frontiers in Research Seminar Series, Department of Anesthesiology and Perioperative Medicine, University of California Los Angeles, Los Angeles, CA</p>
2023	Visiting Professor Seminar	<p>“Pediatric In-Flight Emergencies: Clinical Considerations and Challenges in a Unique Environment.” Department of Anesthesiology, Vanderbilt University, Nashville, TN</p>
2023	Grand Rounds	<p>“Where We Live Matters: Using Spatial Science to Address Social and Environmental Determinants of Health in Pediatric Anesthesiology and Pain Medicine.” Department of Anesthesiology, Vanderbilt University, Nashville, TN</p>
2024	Grand Rounds	<p>“Anesthesiology Critical Care Medicine: More than putting children to sleep.” Department of Pediatrics, Children’s Hospital Los Angeles, Los Angeles, CA</p>
2024	Grand Rounds	<p>“Re-imagining the Future of Social and Environmental Determinants of Health in Pediatric Anesthesiology and Pain Medicine.” Department of Anesthesiology, Medical College of Wisconsin, Milwaukee, WI</p>
2024	Grand Rounds	<p>“Building the Future of Social and Environmental Determinants of Health Analytics for Pediatric Health Systems.” Department of Anesthesiology, Stony Brook University, Stony Brook, NY</p>
2024	Grand Rounds	<p>“Social and Environmental Determinants of Health in a Pediatric Health System Using Spatial Data Science.” Department of Anesthesiology, Children’s Nebraska, Omaha, NE</p>
2024	Grand Rounds	<p>“Building the Future of Social and Environmental Determinants of Health Analytics for Pediatric Health Systems.” Department of Anesthesiology Critical Care Medicine, Children’s Hospital of Philadelphia, Philadelphia, PA</p>

ORGANIZING ROLES IN SCIENTIFIC MEETINGS:

2007	Moderator	“Everything you want to know about Student-Run Health Clinics in 60 Minutes” The American Medical Association Interim Meeting, Honolulu, HI
2017	Abstract Co-Chair	Society for Technology in Anesthesia Annual Meeting, San Diego, CA
2018	Program Co-Chair	Society for Technology in Anesthesia Annual Meeting, San Diego, CA
2018	Moderator	“Medically Challenging Cases” The American Society of Anesthesiology Annual Meeting, San Francisco, CA
2019	Panelist	MPH Capstone Presentations The University of Pennsylvania, Philadelphia, PA
2019	Moderator	“Medically Challenging Cases – Pediatric Anesthesiology Session” The American Society of Anesthesiology Annual Meeting, Orlando, FL
2019	Session Chairperson and Moderator	“Methodological and Analytical Advances in Administrative Data Research” 4th International Conference on Administrative Data Research, Cardiff, UK
2020	Session Proposal Review Committee	International Anesthesia Research Society (IARS) 2021 Annual Meeting, Virtual.
2021	Moderator	“Technology in Anesthesia – Clinical Applications” Society for Technology in Anesthesia Annual Meeting, Virtual.
2021	Scientific Abstract Review Committee	International Anesthesia Research Society (IARS) 2021 Annual Meeting, Virtual.
2021	Invited Member	ASA Abstract Review Subcommittee on Pediatric Anesthesia, The American Society of Anesthesiology Annual Meeting, San Diego, CA.
2021	Invited Member	ASA Abstract Review Subcommittee on Outcomes and Database Research, The American Society of Anesthesiology Annual Meeting, San Diego, CA.
2022	Scientific Abstract Review Committee	International Anesthesia Research Society (IARS) 2022 Annual Meeting, Honolulu, HI.
2022	Invited Member, Scientific Abstract Review Committee	ASA Abstract Review Subcommittee on Pediatric Anesthesia
2022	Invited Member, Scientific Abstract Review Committee	ASA Abstract Review Subcommittee on Information Management and Database Research, The American Society of Anesthesiology Annual Meeting, New Orleans, LA.
2022	Moderator	“General Pediatrics II Research Session” The American Society of Anesthesiology Annual Meeting, New Orleans, LA.
2023	Moderator	“Applications of Data Science and Analytics for a Changing World” Society for Technology in Anesthesia Annual Meeting, Las Vegas, NV.
2023	Co-Chair	Anesthesia Patient Safety Foundation (APSF) Stoelting Conference 2023, Las Vegas, NV.
2023	Moderator	“The Relationship Between Patient Safety and Emerging Technologies” The American Society of Anesthesiology Annual Meeting, San Francisco, CA.
2024	Moderator	“International Innovations in Education and Anesthesiology” 18 th World Congress of Anaesthesiologists, Singapore.
2024	Scientific Abstract Review Committee	Association for University Anesthesiologists Scientific Abstract Review Committee, The Association for University Anesthesiologists Annual Meeting, St. Louis, MO.

2024	Moderator	"Imagination Beyond Your Own – Artificial Intelligence and Anesthesiology" SPA-AAP Pediatric Anesthesiology 2024 Annual Meeting, Anaheim, CA.
2024	Chair Program Shadow and Meeting Planning Committee	SPA-AAP Pediatric Anesthesiology 2024 Annual Meeting, Anaheim, CA.

THESIS:

2003	B.A.	University of Rochester	Acute Illness Utilization Patterns Before and After Telemedicine in Childcare for Inner-City Children: A Cohort Study
2005	M.P.H.	Yale University School of Epidemiology and Public Health	The Other Consequence of Public Health Insurance on Children
2018	M.B.I.	Oregon Health & Science University School of Medicine	A Systematic Review of Geographic Information System Applications in Pediatric Health Services Access and Utilization: A Study of Current and Future Research Directions

PUBLICATIONS:

REFEREED JOURNAL ARTICLES:

- Holt EW, **Tan J**, Hosgood D. The impact of spirometry on pediatric asthma diagnosis and treatment. *Journal of Asthma*. 43(7): 489-93, 2006. PMID #16939987
- McConnochie K, **Tan J**, Wood N, Herendeen N, Kitzman H, Roy J, Roghmann K. Acute illness Utilization Patterns Before and After Telemedicine in Childcare for Inner-City Children: A Cohort Study. *Telemedicine and E-Health*. 13(4): 381-390. 2007. PMID #17848106
- Tan J**, Macario A. How to Evaluate Whether a New Item in the OR is Cost-Effective. *Anesthesiology Clinics*. 26(4): 745-64, 2008. PMID #19041627
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47. Dao D, Nelson O, Simpao AF, **Tan JM**, Wasey JO, Masino A, Tsui R, Scott J, Saeed M, Sloberman L, Hamid M, Bartko MB, Galvez JA. The Telephone Game: Signal Degradation of Automated Vital Sign Recording in Anesthesia Information Management Systems. *Society for Technology in Anesthesia 2020 Annual Meeting*. Austin, TX. January 16-18, 2020.
48. **Tan JM**, Simpao AF, Tam V, Hsu G, Wasey JO, Muhly WT, Nelson O, Galvez JA. Geographic and Socioeconomic Factors Associated with Duration of Nil Per Os (NPO) in a Children's Hospital: An Application of Geospatial Analysis with Electronic Health Records. *SPA/AAP Pediatric Anesthesiology 2020 Annual Meeting*. Paradise Island, The Bahamas. February 29, 2020.
49. Muhly WT, Wohler B, **Tan JM**, England W, Nelson M, Fazzini C, Sequera-Ramos L, Barg F, Stricker P. Determining what variables define quality of recovery following anesthesia and surgery in children (6-12 years old): An analysis of qualitative and semi-structured interviews with patients and their caregivers. *SPA/AAP Pediatric Anesthesiology 2020 Annual Meeting*. Paradise Island, The Bahamas. February 29, 2020.
50. Nelson O, Wu L, Stricker P, Tsui F, Masino A, **Tan JM**, Wasey JO, Galvez JA, Simpao AF. Analysis of factors associated with low blood pressure in healthy infants. *SPA/AAP Pediatric Anesthesiology 2020 Annual Meeting*. Paradise Island, The Bahamas. February 29, 2020.
51. Nelson O, **Tan JM**, Simpao AF, Galvez JA, Wasey JO, Stricker P. Epidemiology and Management of Anesthesia Care in Neonates and Infants. *International Anesthesia Research Society 2020 Annual Meeting*. San Francisco, CA. May 18, 2020. (*Delayed due to COVID-19 Pandemic)
52. **Tan JM**, Tam V, Galvez JA, Hsu G, Quarshie W, Wasey JO, Nelson O, Simpao AF. Geographic and Socioeconomic Risk Factors Associated with Late Arrivals for Elective Surgery in a Children's Hospital: An Application of Geospatial Analysis with Electronic Health Records. *The American Society of Anesthesiology 2020 Annual Meeting*. Washington, DC. October 2020.
53. Becker A, Tam V, **Tan JM**. Geographic Location and Readmission Rate: A Large Claims-Based study of Pay-for-Quality Readmission Risk by Patient Proximity to Hospital. *The American Society of Anesthesiology 2020 Annual Meeting*. Washington, DC. October 2020. *Virtual Oral Presentation*.
54. Loeb R, Abcejo AS, Edens M, **Tan JM**, Schexnayder G, Feldman JM, Peterson MD, Philip JH. Disbursement of Information from American Society of Anesthesiologists and Anesthesia Patient Safety Foundation during a Worldwide Pandemic. *The American Society of Anesthesiology 2020 Annual Meeting*. Washington, DC. October 2020.
55. Abcejo A, Edens M, Loeb RG, Schexnayder G, Philip JH, Feldman JM, **Tan JM**, Warner MA. Analysis of Anesthesia Patient Safety Foundation Website Traffic During the COVID-19 Pandemic. *The American Society of Anesthesiology 2020 Annual Meeting*. Washington, DC. October 2020.
56. Yu H, Tsui F, Simpao AF, Galvez JA, Sutherland TN, **Tan JM**, Wasey JO, Nelson O, Dunturi D, Stricker PA. Development of a Predictive Model for Pediatric Emergence Delirium Using a Large Quaternary Hospital Electronic Health Record Dataset. *The American Society of Anesthesiology 2020 Annual Meeting*. Washington, DC. October 2020.
57. Dao D, Nelson O, Simpao AF, **Tan JM**, Wasey JO, Masino A, Tsui R, Scott J, Saeed M, Sloberman L, Hamid M, Bartko MB, Galvez JA. Simulation Study to Evaluate Fidelity of Continuous Pulse Oximetry Recording in the Electronic Health Record. *Society for Technology in Anesthesia 2021 Annual Meeting*. Virtual Meeting. January 15-17, 2021.
58. Isserman R, Varallo D, Cheung J, Swami S, Lee J, Cafone J, Metjian TA, Chiotos K, Zook J, Baldwin K, Muhly WT, **Tan JM**. Improving antibiotic choice for perioperative antibiotic prophylaxis

- in patients with penicillin-class allergies. *SPA/AAP Pediatric Anesthesiology 2021 Annual Meeting*. San Diego, CA. February 2021.
59. **Tan JM**, Cheung J, Varallo D, Muhly WT, Isserman R. Epidemiology of penicillin-class medication allergy labels in a pediatric surgical population. *SPA/AAP Pediatric Anesthesiology 2021 Annual Meeting*. San Diego, CA. February 2021.
 60. Dao D, Nelson O, Simpao AF, **Tan JM**, Wasey JO, Masino A, Tsui R, Scott J, Saeed M, Sloberman L, Hamid M, Bartko MB, Galvez JA. Simulation study to evaluate fidelity of continuous pulse oximetry recording in the electronic health record. *SPA/AAP Pediatric Anesthesiology 2021 Annual Meeting*. San Diego, CA. February 2021.
 61. Henry M, **Tan JM**, Ross PA. Trends in obesity among a pediatric anesthesia population in a children's hospital, 2004-2020. *International Anesthesia Research Society 2021 Annual Meeting*. Virtual Meeting. May 15-16, 2021.
 62. **Tan JM**. Using Geospatial Analysis to Improve Care Quality in a Children's Hospital. *International Forum on Quality and Safety in Healthcare Asia*. Meeting Cancelled Due to COVID-19. November 25-27, 2021.
 63. Quiroz PA, Kim E, Hsu G, **Tan JM**. Exploring the digital divide in telehealth adoption among pediatric pain patients in a children's hospital. *Society for Technology in Anesthesia 2022 Annual Meeting*. Virtual Meeting. January 13-15, 2022.
 64. Kim E, Firestone S, Vee P, **Tan JM**. Development of a clinical application for pain medicine in pediatrics. *Society for Technology in Anesthesia 2022 Annual Meeting*. Virtual Meeting. January 13-15, 2022.
 65. Adiwidjaja A, Kim E, Hsu G, Quiroz PA, **Tan JM**. Spatial Analysis of Telehealth Utilization in a Pediatric Pain Clinic. *Society for Technology in Anesthesia 2022 Annual Meeting*. Virtual Meeting. January 13-15, 2022.
 66. Adiwidjaja A, Hsu G, **Tan JM**. Ambient air quality exposure among pediatric anesthesia patients in a children's hospital: An application of spatial analytics and population data linkage. *Society for Technology in Anesthesia 2022 Annual Meeting*. Virtual Meeting. January 13-15, 2022.
 67. Adiwidjaja A, Kim E, Hsu G, **Tan JM**. Geospatial analysis of telehealth adoption and utilization in a pediatric pain clinic. *Los Angeles Geospatial Summit*. Los Angeles, CA. February 25, 2022.
 68. Adiwidjaja A, Hsu G, **Tan JM**. Annual ambient air quality exposure among children receiving anesthesia in a children's hospital for elective surgery. *Los Angeles Geospatial Summit*. Los Angeles, CA. February 25, 2022.
 69. Quiroz PA, Kim E, Hsu G, **Tan JM**. Disparities in telehealth utilization among pediatric pain patients in a children's hospital. *Society for Pediatric Anesthesia 2022 Annual Meeting*. Tampa, FL. April 1-3, 2022.
 70. Becker, A, **Tan JM**. Patient driving distance to hospital and readmission risk: A large claims-based study of proximity and social determinants of health. *Academy Health 2022 Annual Meeting*. Washington, DC. June 4-7, 2022.
 71. Adiwidjaja A, Hsu G, **Tan JM**. Ambient air quality exposure among pediatric patients receiving general anesthesia: an application of spatial analytics and population data linkage. *The Saban Research Institute Science Day*. Los Angeles, CA. June 30, 2022.
 72. Adiwidjaja A, Kim E, Hsu G, Quiroz PA, **Tan JM**. Spatial analytics applications in pediatric pain clinic telehealth adoption. *ESRI User Conference 2022*. San Diego, CA. July 11-15, 2022.
 73. Jones J, Adiwidjaja A, Keefer MS, Ross PA, **Tan JM**. Social Vulnerability Index and Child Opportunity Index High in asthma but not linked to PICU stay. *Society of Critical Care Medicine 2023 Critical Care Congress - STAR Research Achievement Award*. San Francisco, CA. January 21-24, 2023.
 74. **Tan JM**, Adiwidjaja A, Hsu G. Outdoor air quality exposure among pediatric anesthesia patients: An application of Spatial Data Science for Environmental Disparity Analysis. *SPA/AAP Pediatric Anesthesiology 2023 Annual Meeting*. Austin, TX. March 31-April 2, 2023.
 75. **Tan JM**, Adiwidjaja A, Quiroz P, Kim E, Hsu G. Where you live matters: Spatial dynamics and disparities in telehealth utilization in a pediatric chronic pain clinic. *SPA/AAP Pediatric Anesthesiology 2023 Annual Meeting*. Austin, TX. March 31-April 2, 2023.

76. **Tan JM**, Adiwidjaja A, Kim E, Hsu G. Spatial Dynamics and Area Based Social Determinant of Health Disparities in the Use of Caudal Nerve Blocks for Elective Urologic Surgery. *SPA/AAP Pediatric Anesthesiology 2023 Annual Meeting*. Austin, TX. March 31-April 2, 2023.
77. **Tan JM**, Adiwidjaja A, Quiroz P, Kim E, Hsu G. Where you live matters: Spatial dynamics and disparities in telehealth utilization in a pediatric chronic pain clinic. *Society for Pediatric Pain Medicine 10th Annual Meeting*. Austin, TX. March 30, 2023.
78. **Tan JM**, Adiwidjaja A, Kim E, Hsu G. Spatial Dynamics and Area Based Social Determinant of Health Disparities in the Use of Caudal Nerve Blocks for Elective Urologic Surgery. *Society for Pediatric Pain Medicine 10th Annual Meeting*. Austin, TX. March 30, 2023.
79. Hsu G, Kim E, Rosales A, Lo C, Le S, Ross P, Ko J, **Tan JM**. Quality improvement initiative to close disparities in pain control for pediatric patients undergoing urologic surgery. *SPA/AAP Pediatric Anesthesiology 2023 Annual Meeting*. Austin, TX. March 31-April 2, 2023.
80. Monroy A, **Tan JM**, Pham Phung, Arbogast H, Spurrier R, Nager A, Chaudhari P. Geographic and Socioeconomic Mapping of Pediatric Trauma in Los Angeles County. *Pediatric Academic Societies 2023 Annual Meeting*. Washington, DC. April 27–May 1, 2023.
81. Frelinger J, **Tan JM**, Klein M, Newth C, Ross PA, Winter MC. Clinical Outcomes and Family Decision-Making After Out of Hospital Cardiac Arrest in Children. *Pediatric Academic Societies 2023 Annual Meeting*. Washington, DC. April 27-May 1, 2023.
82. Rinaldi E, Baron D, Bornstein D, Hotz J, Klein M, Armenta-Quiroz A, Chang D, Vu K, Kwok J, Kohler K, Bonilla-Cartagena J, Rezvan PH, **Tan JM**, Khemani R, Bhalla A. The Association Between the Child Opportunity Index and the Social Vulnerability Index and Recovery After Pediatric Acute Respiratory Distress Syndrome. *The American Thoracic Society 2023 International Conference*. Washington, DC. May 19-24, 2023.
83. Hsu G, Rosales A, Lo C, Le S, Ross P, Ko J, Kim E, **Tan JM**. Improving health equity in pediatric perioperative pain with quality improvement science. *CHLA 2023 Health Equity Week*. Los Angeles, CA. April 2023.
84. Jones J, Klein MJ, Adiwidjaja A, Keefer M, Ross P, **Tan JM**. Social Vulnerability Index is High and Child Opportunity Index is Low in Asthma but not Linked to PICU Stay. *The Saban Research Institute Science Day*, Los Angeles, CA. June 2023.
85. Rosenthal R, **Tan JM**, Gold JI, Derrington S. Association of the Childhood Opportunity Index and Social Vulnerability Index with Hospitalization and ICU Utilization in Pediatric Patients with Ambulatory Care Sensitive Conditions. Abstract submitted to the *Pediatric Academic Societies Meeting*, Toronto, Canada. May 2024.
86. Kwok K, Kampfschulte A, Robinson K, Duan J, Adiwidjaja A, **Tan JM**. Spatial Analysis of Children with Asthma and Air Quality in a Pediatric Health System. *Los Angeles Geospatial Summit*. Los Angeles, CA. February 23, 2024.
87. Robinson K, Kampfschulte A, Kwok K, Duan J, Adiwidjaja A, **Tan JM**. Green Space Accessibility of Patients in a Pediatric Health System: A Spatial Analysis of Electronic Health Records. *Los Angeles Geospatial Summit*. Los Angeles, CA. February 23, 2024.
88. Kampfschulte A, Adiwidjaja A, **Tan JM**. Transportation Burden and Geographic Barriers to Healthcare. *Los Angeles Geospatial Summit*. Los Angeles, CA. February 23, 2024.
89. Rodriguez-Aponte C, Costandi A, **Tan JM**. Weather and Climate Related Impacts on Operating Room Relative Humidity Levels and Patient Safety in a Children’s Hospital in Southern California. *SPA/AAP Pediatric Anesthesiology 2024 Annual Meeting*. Anaheim, CA. April 12-14, 2024.
90. Kampfschulte A, **Tan JM**. The Geography of Healthcare Access: Transportation Burden and Care Utilization. *International Anesthesia Research Society Annual Meeting*. Seattle, WA. May 17-19, 2024.
91. Rodriguez-Aponte C, Costandi A, Adiwidjaja A, **Tan JM**. Weather and Climate Related Impacts on Operating Room Relative Humidity Levels and Patient Safety in a Children’s Hospital in Southern California. *International Anesthesia Research Society Annual Meeting*. Seattle, WA. May 17-19, 2024.

MEDIA AND TELEVISION APPEARANCES:

1. **Tan JM.** Taking Flow on a Medical Mission Trip to Kenya. Invited guest blog post. September 2019. <https://blog.plumelabs.com/2019/09/05/taking-flow-on-a-medical-mission-trip-to-kenya/>
2. Knowlton T, **Tan JM**, Quennehen B, Gregoire J. Wildfires and Air Pollution: Breaking it Down. Invited Guest Blog Post. November 2019. <https://blog.plumelabs.com/2019/11/25/wildfires-what-are-we-breathing/>
3. **Tan JM.** Interview by the American Society of Anesthesiology TV on “Machine Learning, Artificial Intelligence, and Anesthesiology.” ASATV. October 19, 2019.
4. **Tan JM.** Webinar Interview and Panel Discussion. Every Breath Matters: The Role of Health Care Professionals in the Age of Air Pollution. Climate Acceptance Studios (UK). April 26, 2021.
5. **Tan JM.** Geocode Kids to Track Air Pollution Exposure. Climate Acceptance Studios (UK) – YouTube Channel. June 16, 2021.
6. **Tan JM.** Grab Attention with Air Pollution Maps. Climate Acceptance Studios (UK) – YouTube Channel. June 16, 2021.
7. **Tan JM.** Kids Living Near Industry or Big Roads Struggle Under Anaesthesia. Climate Acceptance Studios (UK) – YouTube Channel. June 16, 2021.
8. **Tan JM.** Research Focus Elevator Pitch – Dr. Jonathan Tan. Foundation for Anesthesia Education and Research – YouTube Channel. November 3, 2022.
9. **Tan JM.** Interview by Health IT Analytics on “Exploring the Role of Artificial Intelligence in Anesthesiology.” Health IT Analytics. <https://healthitanalytics.com/features/exploring-the-role-of-artificial-intelligence-in-anesthesiology>. July 20, 2023.
10. **Tan JM.** Work mentioned in Health IT Analytics on “AI Pain Recognition Tool Detects Pain Before, During, and After Surgery.” Health IT Analytics. <https://healthitanalytics.com/news/ai-pain-recognition-tool-detects-pain-before-during-and-after-surgery>. October 18, 2023.