

BIOGRAPHICAL SKETCH

NAME: Adam Seth Mayer

eRA COMMONS USER NAME (credential, e.g., agency login): MAYERAS

POSITION TITLE: MD, fellow, Division of Rheumatology, Children's Hospital of Philadelphia; Division of Rheumatology, University of Pennsylvania

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	Start Date	Completion Date	FIELD OF STUDY
University of Maryland Baltimore County, Baltimore, MD	B.S.	08/2009	05/2013	Biological Sciences, German
University of Pennsylvania Perelman School of Medicine, Philadelphia, PA	M.D.	08/2013	06/2017	Medicine
University of Pennsylvania; Children's Hospital of Philadelphia, Philadelphia, PA	Residency	07/2017	06/2021	Internal Medicine/Pediatrics
University of Pennsylvania; Children's Hospital of Philadelphia, Philadelphia, PA	Fellowship	07/2021	06/2025	Adult/Pediatric Rheumatology
University of Pennsylvania Perelman School of Medicine, Philadelphia, PA	MSCE	07/2022	12/2025 (expected)	Clinical Epidemiology

A. Personal Statement

I am an Assistant Member of the Center for Discovery and Innovation at Hackensack Meridian Health and Assistant Professor of Medicine and Pediatrics at the Hackensack Meridian School of Medicine, having recently completed my training in adult and pediatric rheumatology at the University of Pennsylvania and Children's Hospital of Philadelphia. I have a strong interest in spondyloarthritis with a focus on inflammatory bowel disease (IBD)-associated arthritis, specifically comparing disease presentation and treatment outcomes between adult and pediatric patients with IBD. My prior work in vasculitis and ongoing research in spondyloarthritis has led to multiple publications and oral abstracts at international conferences, my receipt of a 2025 Rheumatology Research Foundation (RRF) Scientist Development Award (1342110), the 2023 Spondyloarthritis Research and Treatment Network (SPARTAN) Mentored Fellowship Award, the Penn H. Ralph Schumacher Award for Excellence in Rheumatology (2020), and appointment to the University of Pennsylvania/Children's Hospital of Philadelphia Rheumatology NIH T32 grant (5T32AR76951-05) for training in clinical research and epidemiology. I am also engaged in research-related efforts at the national level, including serving on the SPARTAN axial spondyloarthritis guideline literature review team, the SPARTAN Research Committee, serving as co-chair of the juvenile spondyloarthritis workgroup for the Childhood Arthritis and Rheumatology Research Alliance (CARRA), and being a rostered reviewer for the 3 ACR peer-reviewed journals through my completion of the ACR Journals Peer Review Mentoring Program. My experience while training in internal medicine/pediatrics residency and adult/pediatric rheumatology fellowship showcased the frequent need to extrapolate adult data to inform the treatment of pediatric patients with rheumatic disease due to the lack of rigorous data in pediatric cohorts, even though these populations of patients are often vastly different. These major gaps in evidence-based practice spurred my interest in pursuing a career in clinical research, with a concentration on how disease presentation, medication safety and effectiveness may differ in adults and children with rheumatic conditions. My recent work with Dr. Pamela Weiss in juvenile axial spondyloarthritis has allowed me to explore and measure important aspects of the clinical assessment distinct from that of adult spondyloarthritis and learn strategies for the successful conduct of collaborative research. With the support of my recent SPARTAN funding, I have fostered active collaboration with local adult and pediatric IBD experts to study important topics in IBD-associated arthritis with a recent accepted manuscript on national NSAID prescribing trends in IBD across the age spectrum. I am currently completing a Masters of Science in Clinical Epidemiology (MSCE) degree to build upon my ongoing research experience and delve further into complex study design, advanced epidemiologic methods for addressing confounding, and pharmacoepidemiology. I am currently leveraging this training in the near future to explore the complex

association of NSAID exposure and IBD intestinal flare, an issue never previously studied in a systematic fashion in children and one that has the potential to inform care for patients with IBD-associated arthritis.

Citations:

1. **Mayer AS**, Xiao R, Grossman A, Bewtra M, George M, Weiss PF. Temporal Trends in and Associations with NSAID Prescription in Adult and Pediatric Patients with IBD, *Arthritis Care Res* (Accepted July 2025).
2. **Mayer AS**, Parian A, Craig E. Practical Considerations for the Treatment of Patients with Psoriatic Arthritis and Comorbid Inflammatory Bowel Disease, *Rheum Dis Clin North Am*. 2025 Aug; 51(3):525-536
3. **Mayer A**, Brandon TG, Aggarwal A, Burgos-Vargas R, Colbert RA, Horneff G et al. Effect of Characteristic Inflammatory and Structural Pelvic Magnetic Resonance Imaging Lesions on Expert Assessment of Axial Juvenile Spondyloarthritis. *J Rheumatol*. 2025 Feb 1;52(2):165-172
4. **Mayer A**, Xiao R, Bewtra M, George M, Weiss PF. Safety of Prescription NSAIDs in Adults with IBD: Data from a Large Administrative Claims Cohort. SPARTAN National Conference (oral abstract); Toronto, ON May 9-10, 2025

B. Positions, Scientific Appointments and Honors

Positions and Employment

2025 – Present	Assistant Member, Center for Discovery and Innovation at Hackensack Meridian Health
2025 – Present	Assistant Professor of Medicine and Pediatrics, Hackensack Meridian School of Medicine
2022-23, 2024-25	Clinical Research Fellowship, NIH Clinical Research Training in Rheumatology Grant (T32)
2021 – 2031	Internal Medicine Board Certification, American Board of Internal Medicine
2021 – 2031	General Pediatrics Board Certification, American Board of Pediatrics
2021 – 2025	Adult & Pediatric Rheumatology Fellowship, Hosp of Univ of Penn/Children's Hosp of Phila
2017 – 2021	Internal Medicine/Pediatrics Residency, Hosp of Univ of Penn/Children's Hosp of Phila
2017 – 2021	Program representative, National Med-Peds Residents' Association (NMPRA)
2016	Teaching Assistant for Gross Anatomy Course, Univ of Penn Perelman School of Medicine
2011 – 2013	Teaching Assistant for Cell Biology Course, Univ of Maryland Baltimore County
2010 – 2013	Tutor for General & Organic Chemistry, Univ of Maryland Baltimore County

Scientific Appointments

2024 – Present	Rostered reviewer for ACR peer-reviewed journals
2025 – Present	Co-chair, CARRA Juvenile Spondyloarthritis Workgroup
2025 – Present	Member, SPARTAN Research Committee
2025 – Present	Member, SPARTAN axial spondyloarthritis guideline literature review team
2023 – 2025	Fellow-in-training (FIT) member, ACR Rheuminations on Research Careers Workgroup
2023 – 2025	FIT member, CARRA Juvenile Spondyloarthritis Workgroup
2023 – 2024	FIT member, ACR Committee on Pediatric Rheumatology
2023 – 2024	FIT mentee, ACR Rheum with a (Re)View Program
2024 – Present	FIT Member, Spondyloarthritis Research and Treatment Network (SPARTAN)
2022 – Present	Member, Childhood Arthritis and Rheumatology Research Alliance (CARRA)
2021 – Present	Member, American College of Rheumatology (ACR)
2020 – Present	Member, American College of Physicians (ACP)
2017 – Present	Member, Alpha Omega Alpha (AOA) Honors Society
2017 – Present	Member, American Academy of Pediatrics (AAP)
2014 – Present	Member, American Medical Association
2012 – Present	Member, Phi Beta Kappa Honors Society

Honors:

2025 – 2027	RRF Scientist Development Award (1342110)
2024	RRF Pediatric Fellow Research Award
2024	Selection for and completion of the ACR Journals Peer Review Mentoring Program
2021, 2024	Pennsylvania Rheumatology Society Fellow-in-training Scholarship
2023	SPARTAN Mentored Fellowship Award
2023	ACR Pediatric Rheumatology Symposium (PRSYM) Travel Scholarship

2022	Vasculitis Foundation Physician Spotlight
2021, 2023	ACR Fellows in Training Annual Meeting Scholarship
2020	H. Ralph Schumacher, M.D. Resident Award for Excellence in Rheumatology, Univ of Penn
2019	ACP Professionalism Award for Trainees in Southeastern PA
2013	<i>Summa cum laude</i> , Univ of Maryland Baltimore County
2013	Victor Vitullo Award for Chemistry Research, Univ of Maryland Baltimore County
2013	Finalist for Valedictorian Selection, Univ of Maryland Baltimore County
2012	Undergraduate Research Award, Univ of Maryland Baltimore County
2012	Knappe Scholarship for Excellence in German Studies, Univ of Maryland Baltimore County
2012	CRC Press Chemistry Achievement Award, Univ of Maryland Baltimore County
2009 – 2013	President's Fellows Merit Scholarship, Univ of Maryland Baltimore County
2009 – 2013	Univ of Maryland Baltimore County Honors College
2009 – 2012	Robert C. Byrd Honors Scholarship, State of Maryland

C. Contributions to Science

1. Characterizing Prescription Nonsteroidal Anti-inflammatory Drug (NSAID) Use in Adult and Pediatric Patients with Inflammatory Bowel Disease (IBD)

As my interest in spondyloarthritis blossomed during fellowship, I developed a specific interest in IBD-associated arthritis and recognized the degree to which this area is understudied relative to other forms of spondyloarthritis. Having seen many adult and pediatric patients with IBD-associated arthritis, I appreciated the frequent debate about the safety of NSAID use in this population given concern for possible precipitation of intestinal flares despite NSAIDs being first-line therapy for spondyloarthritis features such as dactylitis and sacroiliitis. Under the mentorship of Dr. Pamela Weiss, I began collaborating with local adult and pediatric IBD researchers to develop my MSCE Masters thesis to evaluate longitudinal NSAID prescription patterns in the United States by prescribers who are faced with mixed safety data and imperfect alternative analgesic therapies. This work has granted me foundational knowledge for working with large administrative claims data and how to conduct interdisciplinary research with colleagues in Gastroenterology (GI). My preliminary work, funded by a SPARTAN Mentored Fellowship Award and NIH T32 training grant, was invited for oral talks at both the 2024 SPARTAN annual conference and the CARRA juvenile spondyloarthritis workgroup meeting, and resulted in a first-author manuscript recently accepted to *Arthritis Care & Research*. These results also serve as preliminary data for an ongoing study to evaluate NSAID safety in adult and pediatric patients with IBD which has immediate implications for the treatment of musculoskeletal symptoms in patients with IBD.

- Mayer AS**, Xiao R, Grossman A, Bewtra M, George M, Weiss PF. Temporal Trends in and Associations with NSAID Prescription in Adult and Pediatric Patients with IBD, *Arthritis Care Res* (Accepted July 2025).
- Mayer A**, Xiao R, Bewtra M, George M, Weiss PF. Safety of Prescription NSAIDs in Adults with IBD: Data from a Large Administrative Claims Cohort. SPARTAN National Conference (oral abstract); Toronto, ON May 9-10, 2025
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2. Evaluating the Role of Magnetic Resonance Imaging (MRI) in the Assessment of Juvenile Axial Spondyloarthritis

At the end of my Internal Medicine/Pediatrics residency I identified Dr. Pamela Weiss as a research mentor given my interest in spondyloarthritis and clinical epidemiology. I began working with Dr. Weiss on a cross-sectional study analyzing how clinical experts' assessment of juvenile axial spondyloarthritis (JAxSpA) changes when MRI data is added to existing clinical features. This study, a secondary analysis of Dr. Weiss' project to develop classification criteria for JAxSpA, involved collaboration with over 20 international rheumatology and radiology experts. My involvement in this project included assistance in data analysis/interpretation and drafting of a first-author manuscript which was published in early 2025. I have also had the opportunity to present this work as an invited speaker at the 2022 SPARTAN annual conference and the 2022 ACR Convergence annual conference. This project has granted me experience with more complex data analysis, exposure to management of a large international research collaboration, skills in oral research presentation on the national scale, and further proficiency in scientific writing. I have also begun performing secondary analyses of our collected data to identify distinct subpopulations in JAxSpA that would warrant

stratification in future trials in this population. Preliminary findings on sex differences in clinical and imaging JAxSpA phenotypes were presented as an oral abstract presentation at the 2023 SPARTAN conference and poster presentation at the ACR Convergence 2023, and a first-author manuscript is currently under review.

- a. **Mayer A**, Brandon TG, Aggarwal A, Burgos-Vargas R, Colbert RA, Horneff G et al. Effect of Characteristic Inflammatory and Structural Pelvic Magnetic Resonance Imaging Lesions on Expert Assessment of Axial Juvenile Spondyloarthritis. *J Rheumatol*. 2025 Feb 1;52(2):165-172
- b. **Mayer A**, Brandon TG, Weiss PF, on behalf of JAXSPERT members. Sex Differences in Clinical and Imaging Characteristics of Axial Juvenile Spondyloarthritis. SPARTAN National Conference (oral abstract); Cleveland, OH May 19-20, 2023

3. Evaluating Risk Factors and Outcomes in Non-infectious Aortitis

The discovery of my passion for rheumatology during internship led me to explore research opportunities to further my academic exposure to the field. I began working with Dr. Rennie Rhee to characterize risk factors for non-infectious aortitis. My role was to help with chart review, data interpretation, and manuscript review. This served as my first foray into medical research and formed the foundation for my understanding of how to successfully conduct rigorous clinical research. After publishing our first manuscript, I then transitioned to lead investigator on a second-phase project assessing short- and long-term outcomes for the cohort of patients with aortitis we had been studying. Serving in the lead role for this project gave me direct experience with study design, data collection, data interpretation, and manuscript preparation/revision. I also oversaw a medical student who was assisting with data collection, affording me with an early opportunity to develop skills in managing a research team, including task delegation and timeline management. This project led to multiple poster presentations, an oral presentation at the University of Pennsylvania Rheumatology Trainees Research Day and ultimately first author publication in a peer-reviewed journal.

- a. **Mayer A**, Sperry A, Quimson L, Rhee R. Long-term clinical and radiographic outcomes in patients with isolated aortitis, *ACR Open Rheumatol*. 2022 Dec;4(12):1013-1020
- b. Quimson L, **Mayer A**, Capponi S, Rea B, Rhee RL. Comparison of Aortitis Versus Noninflammatory Aortic Aneurysms Among Patients Who Undergo Open Aortic Aneurysm Repair. *Arthritis Rheumatol*. 2020 Jul;72(7):1154-1159
- c. **Mayer A**, Sperry A, Quimson L, Rhee R. Comparison of Post-Operative Outcomes in Aortitis and Non-Inflammatory Thoracic Aortic Aneurysms Undergoing Open Surgical Repair (oral abstract). Univ of Pennsylvania Rheumatology Trainees Research Day, June 2020

Complete List of Published Work in MyBibliography:

<https://www.ncbi.nlm.nih.gov/myncbi/adam.mayer.1/bibliography/public/>