

### **What you will be working on?**

I will be developing machine learning and network-based models that integrate newborn metabolomic data and longitudinal electronic health records to predict cardiovascular risk and identify early-life biomarkers for neonatal heart failure and congenital heart disease. My project, "Born with a Signature," aims to uncover the biological and temporal patterns that shape cardiovascular health from birth, ultimately creating a clinically interpretable Neonatal Cardiovascular Index for early screening and intervention.

### **What are you looking forward to the most in your experience as a WA Scholar?**

I'm most excited to collaborate with mentors and peers who are advancing the intersection of AI and medicine, and to showcase my work in a field that remains deeply understudied in both biomedicine and pediatrics. I look forward to learning from the diverse community of Warren Alpert Scholars, exchanging ideas across disciplines, and translating data-driven discoveries into insights that clinicians can trust and use to improve neonatal care.

### **How do you see this shaping your research and ultimately, career?**

This experience will strengthen the translational bridge between computational modeling and real-world clinical impact, while also grounding my growing interests in health and technology policy. By uniting metabolomics, EHR trajectories, and interpretability, I aim to build tools that promote AI-driven equity in maternal, neonatal, and overall women's health. The interdisciplinary mentorship and exposure from this program will prepare me to pursue a career that combines research, policy, and advocacy to shape the future of data-driven and biologically-informed healthcare.

### **From your perspective, what does it mean to you to be a WA Scholar?**

To me, being a Warren Alpert Scholar represents both recognition and responsibility. The recognition that rigorous, human-centered AI can transform healthcare, and the responsibility to ensure those innovations are ethical, interpretable, and inclusive. It's an opportunity to contribute to a community that values scientific excellence grounded in compassion, transparency, and societal impact.