Cleveland Clinic Children's
Center for Artificial Intelligence (C4AI)

Opening for Postdoctoral Fellow: Focus on Time Series Analysis

The Cleveland Clinic Children's Center for Artificial Intelligence (C4AI), in conjunction with the Pediatric and Adult Congenital Heart Center (PACHC), the Heart Vascular and Thoracic Institute (HVTI) Cardiovascular Outcomes Research and Registries (CORR), the Artificial Intelligence and Informatics in Imaging and Healthcare (AIIIH) Lab, and the Cardiovascular Innovation Research Center (CIRC), are seeking a post-doctoral fellow with interest and expertise in analysis of time-series data. This position would be under the supervision of Animesh (Aashoo) Tandon, MD, MS; Tara Karamlou, MD, MSc; Orkun Baloglu, MD; and Bradley Marino, MD, MPP, MSCE, MBA.

The post-doctoral fellow will be working on development and implementation of predictive analytics for time-series physiologic signals, including bedside ECG, EEG, and arterial line waveforms, and data from wearable biosensors, for patients with pediatric and congenital heart disease.

This unique position benefits from the tight link between the C4AI, PACHC, AIIIH, CORR, and CIRC. The candidate will interact with both technical and clinical partners to improve patient care through novel technologies. There will also be opportunities to interact with the Cleveland Clinic environment at large, including the Cleveland Clinic-IBM Discovery Accelerator program.

Applicants must have or be completing a PhD degree, and have demonstrated excellent qualifications in research. A successful candidate would have a PhD degree in Biomedical Engineering, Computer Science, Electrical Engineering or related field and a demonstrable record of accomplishment in data science, with an emphasis on time-series analysis. There would be opportunities for hybrid work, but the expectation would be that the candidate would be present in Cleveland.

The Pediatric and Adult Congenital Heart Center at Cleveland Clinic currently ranks in the top 10 in US News and World Report and has world-class expertise in cardiac intensive care and wearable biosensors in congenital hear disease. We have unique data collection infrastructure and access to the necessary computational resources.

There is a substantial research footprint at HVTI, including CORR and CIRC. CORR is a robust, multidisciplinary data science and analytic center that specializes in large clinical research studies, including prospective cohort studies and HVTI-specific projects. CIRC is a new research center dedicated to advancing human health through rapid clinical translation of cutting-edge technologies including but not limited to advanced imaging, artificial intelligence, 3D printing, biomimetic device design, and computer simulation. CIRC includes multi-disciplinary faculty scientists, engineers, and clinicians working closely together to solve unmet clinical cardiovascular needs.

How to apply:
Interested candidates should send a one-page statement of research interests & career goals, two representative publications, a full CV, and contact info for three references to Dr. Tandon: tandona2@ccf.org. Questions and informal inquiries are welcome!

We believe that the best science comes from embracing diverse people, skills, perspectives, and ideas. We are an Equal Opportunity Employer. Applicants from all backgrounds are strongly encouraged.