

Artificial Intelligence & Cardiology #2

Planning

Sunday 19.03Auditorium 201, Floor 2,
Biomedical Engineering,
Silver Building

@ Technion

12:00 - 12:30: Networking (pizza)**12:30 - 13:10:** Prof. Gari Clifford**13:10 - 13:30:** Fireside chat Prof. Gari Clifford and TERA
"A sustainable model for medical data access?"

Promising machine learning techniques for the electrocardiogram, and key barriers to progress.

Abstract

Deep learning and easy access to large quantities of electrocardiogram (ECG) data has led to an explosion of research in the field of machine learning applied to the ECG. While some exciting results have made a splash in sensational journals, I argue we should be wary of most of what we read. Inter-expert label disagreements, noise, data selection bias, equipment differences, and poor choices of assessment metrics, are just some of the problems that receive scant attention. In this talk, I'll discuss these limitations, and how we might address them, and in particular, which areas of machine learning may be most promising.



Prof. Gari Clifford

Chair, Dept. of Biomedical Informatics, Emory University
Prof. of Biomedical Informatics & Biomedical Engineering
Depts of Biomedical Informatics and Biomedical Engineering,
Georgia Institute of Technology & Emory University

Gari is the Chair of Biomedical Informatics at Emory and a professor of Biomedical Engineering at Georgia Tech. He was recently elected as a Fellow of the IEEE for contributions to machine learning applications in cardiovascular time series. He has been developing and applying machine learning in the medical domain for 25 years, with a focus on open science through his leadership of the annual [PhysioNet Challenges](#). His application areas span neuro-psychiatric health, sleep, cardiovascular disease and maternal-fetal health (specifically with marginalized communities, in which he works with his anthropologist partner, Prof. Rachel Hall-Clifford, and with whom he jointly runs the [Co-design Lab for Health Equity](#).)

[Click to confirm your participation](#) (limited places)

The seminar will be delivered in English