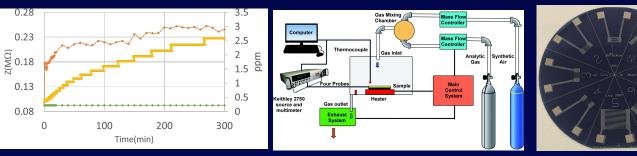
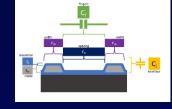
Constantly on the Lookout: Low-cost Sensor Enabled Explosive Detection to Protect High Density Environments

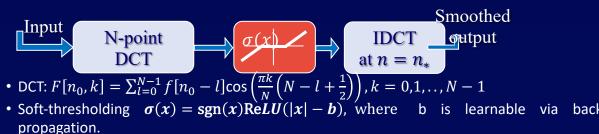
- Smart phones, coupled with simple, low-cost sensors can serve as lookout devices for many types of threats, e.g. Chemical spills, explosives, etc.
- This project develops the cyber-physical system that enables crowd-sourced threat monitoring by transparently using resources donated by people
- Sensor development, measurement, modeling, and calibration







- Host-level tracking and baseline estimation using AI
 - The neural network at the host learns sensor behavior over time as data becomes available



		Stationary	Crowd-
			sourced
	Cost per sensor	\$10,000	\$5
L.	Detection range	20m	1m
	Protect K-12 school	\$1M	\$5K
	Protect marathon		\$100K