## Wearing Awareness: Designing *Pedestrian-Wearables* for Interactions with Autonomous Vehicles

Sabrina Lakhdhir, Sowmya Somanath, Ehud Sharlin sabrinalakhdhir@uvic.ca, sowmyasomanath@uvic.ca, ehud@cpsc.ucalgary.ca

How might wearable devices support interactions between autonomous vehicles and pedestrians?









1 Searching

2 Sensing Vehicle & Actuating

**3** Alerting

Pedestrian-wearables are pedestrian-worn wearable devices that aid communication between pedestrians and autonomous vehicles by actuating according to oncoming vehicle actions. For example, a scarf that flaps upwards to notify the pedestrian when it is deemed safe for them to cross.

## A Design Space of Potential Future Pedestrian-Wearables

We propose potential *pedestrian-wearable* ideas for tactile, visual, and auditory alerting styles, and discuss potential benefits and considerations they present.









