

Faculty Name:

Brian A. Smith

Faculty Email:

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Lab:

Computer-Enabled Abilities Laboratory (CEAL)

Project Title:

Real-Time Blind/Low-Vision Pedestrian Navigation Assistance with Street Cameras

Description:

"As part of Columbia's new Center for Smart Streetscapes, we aim to build accessibility features into smart-cities from the ground up. Blind and low vision pedestrians face many challenges while walking including veering off-track and interacting with dynamic obstacles like cyclists. We aim to build and test a system that allows users to tap a button on an App, wave their arm to be recognized by a street camera, and then receive feedback from the street itself to address and correct the aforementioned challenges.

NOTE: Our advertised start and end dates are flexible."

Location of Research:

On-Site

of hrs/week:

40

Department/Program:

Computer Science

Eligibility:

BS, Second Year, BS, Third Year, BS, Fourth Year, MS

To apply, please contact:

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