

FACULTY MENTOR

Thomas D Marcotte

PROJECT TITLE

Tracking eye movements during acute cannabis use

PROJECT DESCRIPTION

We have a study administering cannabis, and then tracking driving behavior in a wide-field-of-view (3-monitor) simulator. Participants need to complete a task on an iPad off to the side of the monitors. We are interested in whether cannabis use results in less efficient attentional/visual processing (i.e., more times with eyes off of the road; more time focusing on the distractor task). I would like an eye tracking program that is able to sync eye movements that range from being forward-looking to looking off to the side. I do not want to use glasses, so this would likely involve more than one tracking system.

INTERNS NEEDED

Negotiable

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PROJECT TITLE

Detecting THC and other cannabinoids using non-invasive biosensors

PROJECT DESCRIPTION

We are interested in ultimately conducting naturalistic studies of driving under the influence of cannabis. We thus want an unobtrusive tool (skin application?) that participants can wear continuously to measure THC in blood. We have a current study in which we can immediately be collecting data regarding the utility of such a biosensor.

INTERNS NEEDED

Negotiable