

MAPPING GAZE TRAJECTORY & VISUAL CONFIRMATION BIAS IN LEGAL DECISION-MAKING

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EASP Hackathon

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RESEARCH BACKGROUND

Why study eye gaze?

Police Use-of-Force in the U.S.

Ubiquitous visual data & rising accessibility in the legal system

Stark contrast between Black Lives Matter and Blue Lives Matter social movements' endorsement of police guilt / innocence

Visual experience: a stage of information processing prior to reaching the legal verdict



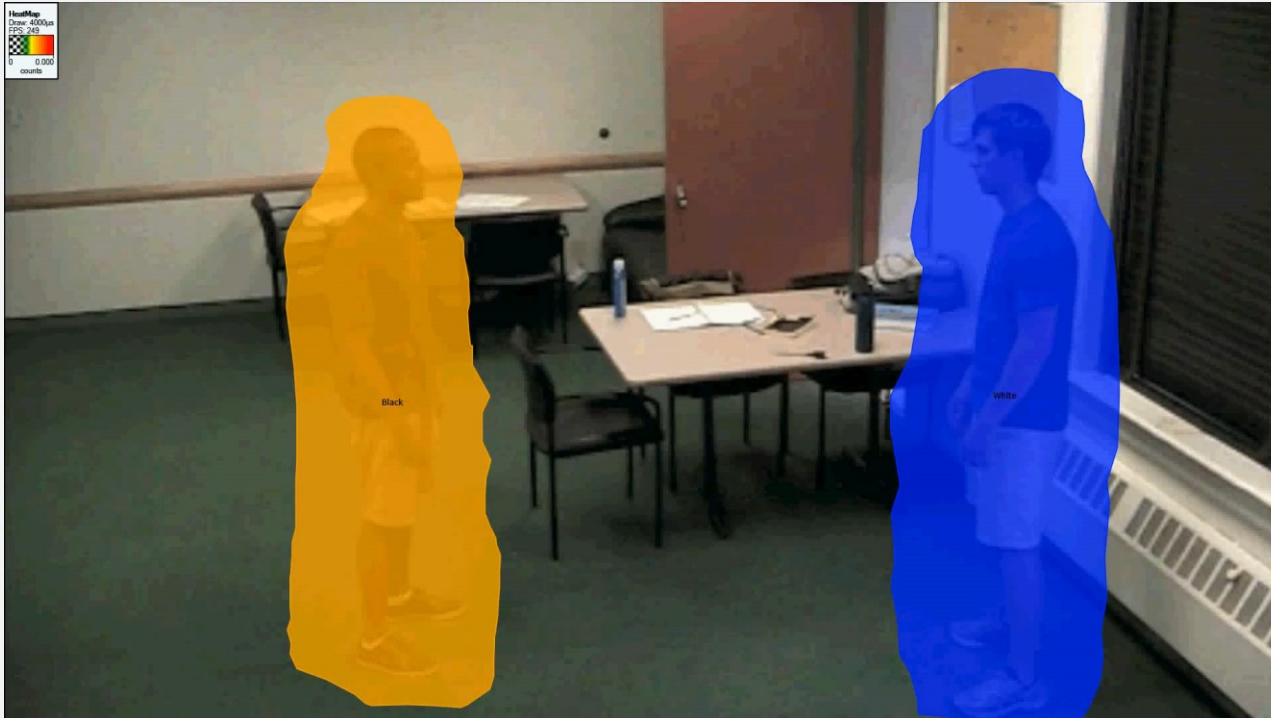
METHODS & GAZE DATA

*How did we collect
gaze data?*

EYE-TRACKING

Tobii T-60XL Eye-tracking System

- ※ Covert eye-tracking
 - ※ Same video viewed twice by all participants
- ※ Areas of interest on visual targets
 - ※ Scripted ambiguous altercation video
 - ※ Color-coded AOIs from a sample screenshot



GOALS

Hackathon participants who make substantial contribution and provide continuous support will be considered for authorship



1. *Matching each participants' fixation trajectory to AOIs within the video*
2. *Create a timeseries dataset including fixation target at all available frame/ timestamp*
3. *Explore visual confirmation bias between two viewings*
4. *Define measurements for attention style within AOIs*



THANK YOU

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