**WEARABLE TIME MACHINE**

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**MOTIVATION**

Humans are constantly burdened with remembering names and details about past social interactions.

Personal Assistants are passé...  
Smart Glasses are the future!

**RESULTS**

Server-side processing time (for 1983 frames)

**PROJECT OVERVIEW**

An Android application to provide intelligent cues in a social setting. Objectives:

- Display an identified person's **name**, **interests**, and **details of the most recent interaction**
- Automatically determine whether an unknown person is **important** to the user
- Impose **minimal cognitive overhead**
- Be user-specific, but **device-agnostic**

**SYSTEM ARCHITECTURE**

![Diagram of system architecture](image)

**FEATURES**

- Real-time face detection and recognition
- Displays relevant context for a recognized person
- Automatically builds a list of (potentially) important people
- Store relevant details about people
- Other Features:
  - Display information from social media: education, organization, interests
  - View list of known people
  - Concurrent, multi-user recognition and training

**TAKE AWAYS**

- Face-tracking is indispensable: hides latency of critical path, reduces bandwidth usage, and allows concurrent, multi-user training
- Google Vision API is difficult to port to ODG
- Can achieve 30+ fps on the client side
- Losing tracklets results in high jitter