# EYE TRACKING FINAL PROJECT

William LaCroix
UdS Saarland – WiSe 2023–2024

# PROJECT GOAL:

Replicate Ryzhova, Škrjanec, et al. 2023 using RNNs

# RESULTS:

- LSTM: bad
- MLP: good

| Task | Model | Accuracy | F1 |
|------|-------|----------|-----|
| 1 | **MLP LOOCV** | **1.0000** | **1.0000** |
| | MLP 10-fold CV | 0.9825 | 0.9643 |
| | *Regression 10-fold CV* | *0.9531* | *0.9032* |
| | LSTM 10-fold CV | 0.9009 | 0.7930 |
| 2 | **MLP leave-1-out** | **0.9854** | **0.9701** |
| | MLP leave-2-out | 0.9708 | 0.9405 |
| | *Regression leave-2-out* | *0.9479* | *0.8913* |
| 3 | **MLP leave-1-out** | **0.9708** | **0.9419** |
| | *Regression leave-1-out* | *0.9531* | *0.9032* |

# CURIOUS?

https://github.com/WilliamPLaCroix/EyeTracking