

# Face Recognition

**Dr. P. Jonathon Phillips**  
NIST



# Who is this person?



# Is this same person?

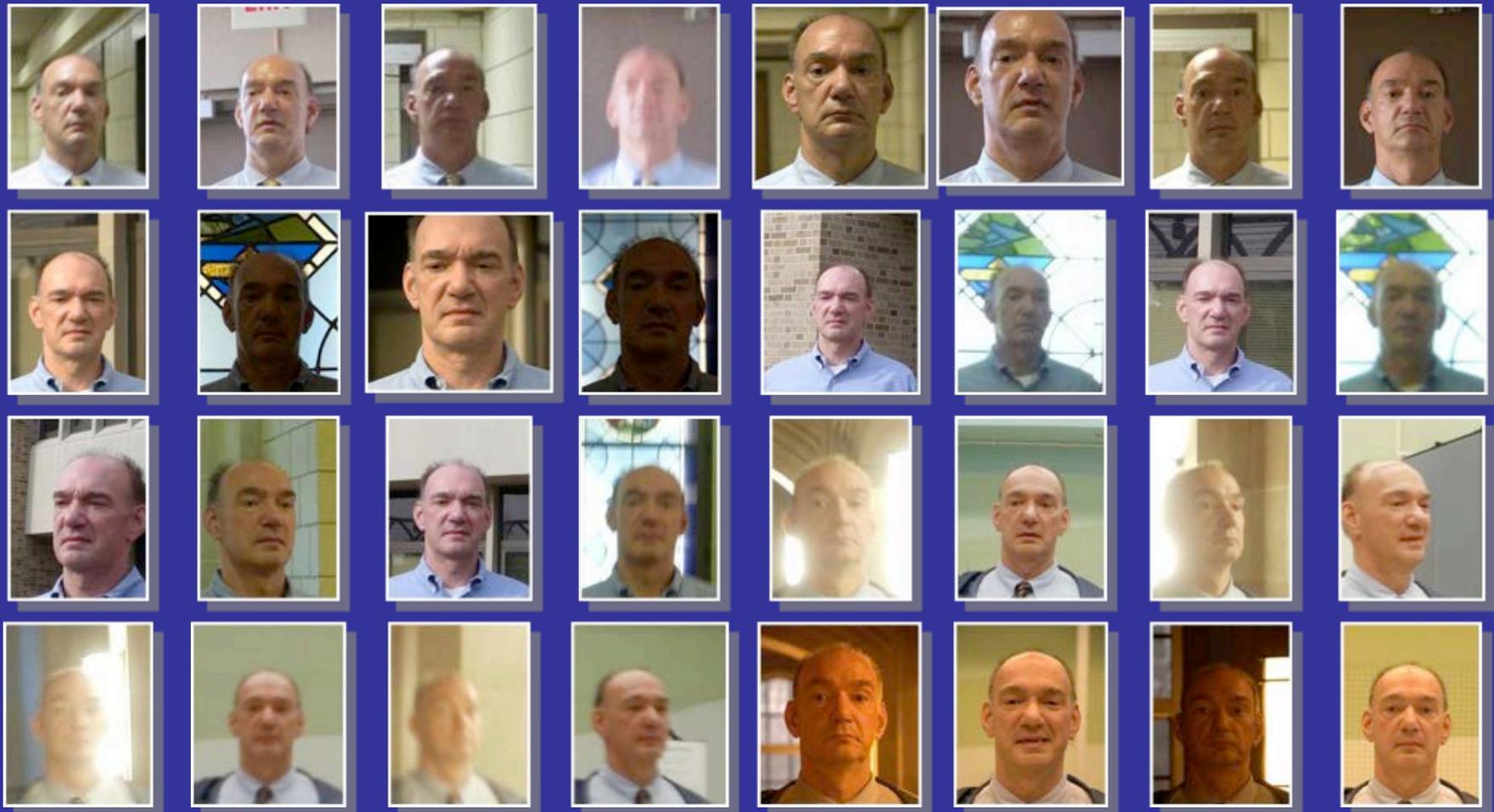


# How Many People?



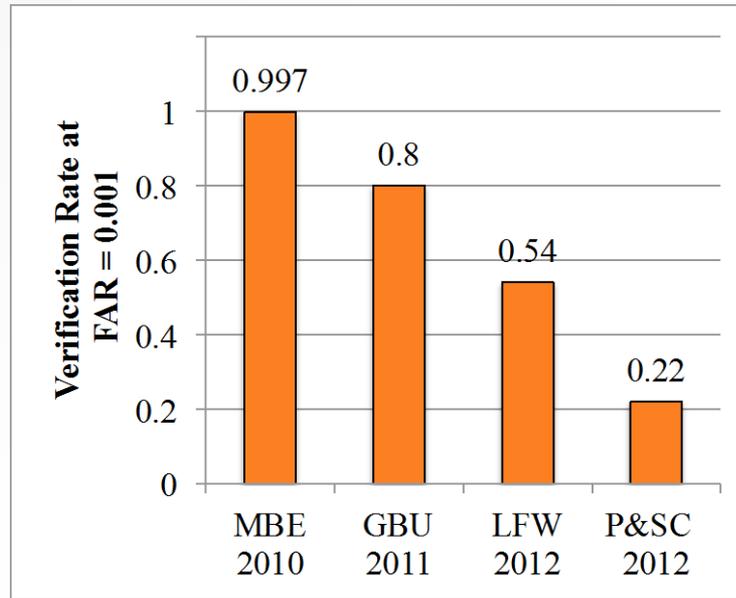
*Jenkins et al. (2011)*

# Examples of Digital Point & Shoot Camera Face Images



*Courtesy PittPatt*

# Range of Performance



**Mugshots**



**Digital SLR**



**Web Photos**



**Digital Point & Shoot Cameras**



# Face Recognition

**Jan Machacek**  
Paycasso

# Consumers' expectations



**KEEP  
CALM  
IT  
JUST  
WORKS**

# Industry's expectations



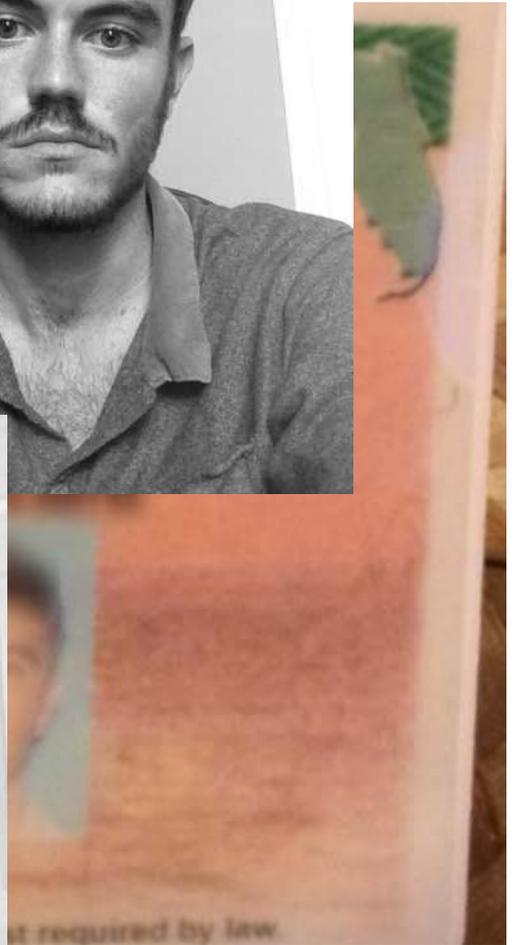
# In the wild pictures



# In the wild pictures



# In the wild pictures



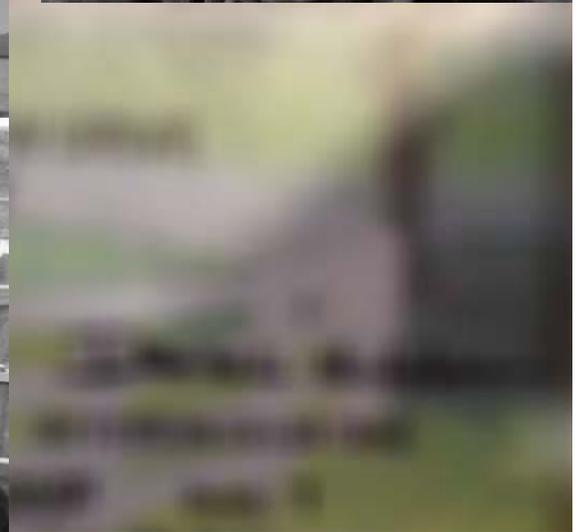
# In the wild pictures



# In the wild pictures



# In the wild pictures



# Liveness



# Liveness

