

## Recognising faces: family, friends and photo-ID

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Lecture, June 23, 2026, 18.00 c.t., HS3, Carl-Zeiss-Strasse 3

Despite many years of research on face perception, the problem of identification remains unresolved – how do we recognise the people we know? And how does this relate to our use of faces to prove identity in forensic and security settings? I will review our research on this problem, describing experiments in the lab and in the field alongside the rapid development of AI for automatic recognition. I will emphasise the importance of within-person variability (people look different on each encounter) and idiosyncratic experience (viewers' experience of faces are all different). While computer-based recognition of faces is now extremely good, challenges remain in our understanding of human perception. These may require us to adopt new methods of enquiry.