## Topic 4: (Python (or R)) Probabilistic Programming – Causality and Schizophrenia

When doing data analysis, we often want to identify relations

* Research is often about finding relations
* There are many methods to estimate these relations
* One, that also gives you an estimate of uncertainty, is Bayesian estimation
* We provide you with a dataset about causal perc in SSD
* Here you can apply pp techniques to shed more light on what causes/ drives causality

### Getting Started

* Get an overview from the papers
* Experience the stimuli (website link)
* Execute the example notebook

### Recommended Prerequisites

* Creativity
* Basic programming experience (any language that supports web-technologies)
* Basic understanding of network communication can be advantageous

### Materials

**The Dateset**

<https://osf.io/kj57r/files/osfstorage>

**Related Publications on this Dataset**

Streiling et al. <https://www.nature.com/articles/s41537-025-00614-0>

Schülke et al. <https://pubmed.ncbi.nlm.nih.gov/37402578/>