

THEORETICAL MODELING

for cognitive science and psychology



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Computational Cognitive Science
Group, Donders Institute for Brain,
Cognition and Behaviour



AARHUS UNIVERSITY

Radboud University



Course Rationale

- Increasing interest in causal modeling and theory dependent explanation in social and cognitive domains
- Increasing use of theory-free machine-learning technology for data analysis in these domains
- Graduates are needed to bridge gaps between computational theory and machine learning methods

Structure

- 20 ECTS Profile Course for MSc.IT Cognitive Science students
- Hybrid international workshop on computational and theoretical modeling
- International cooperation on applied projects with external partners
- In partnership with Radboud University's MSc Artificial Intelligence

Content

- Hybrid workshop: Learn principles of theoretical modeling
- Applied projects: Use theoretical model to explain applied problem for external organisation
- Project supervision: Work together on the project with Radboud and AU faculty