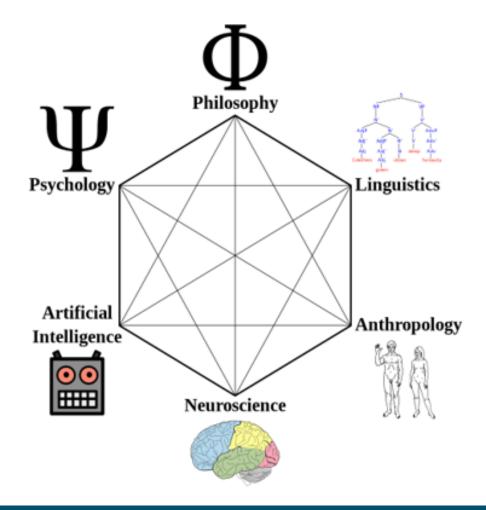


Cognitive Science MSc

Prof. Frank Keller Programme Director

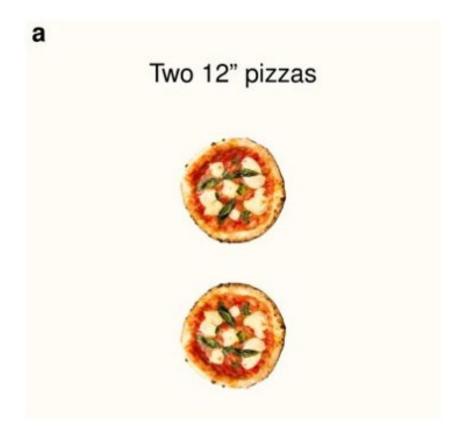


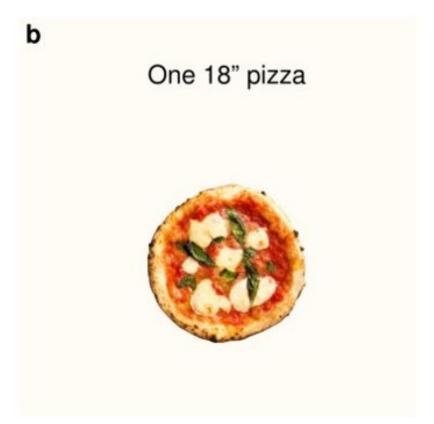






Which is more pizza?

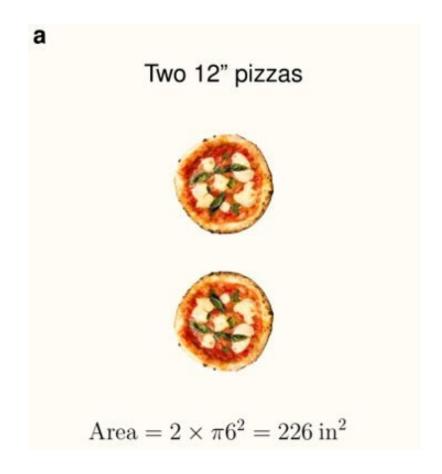


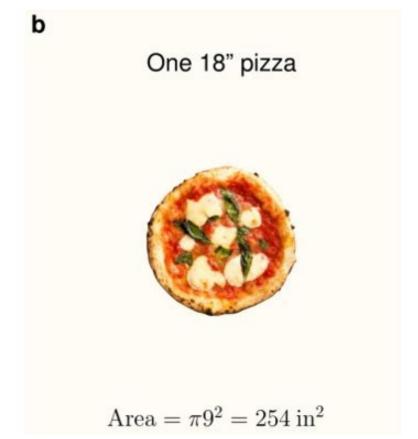




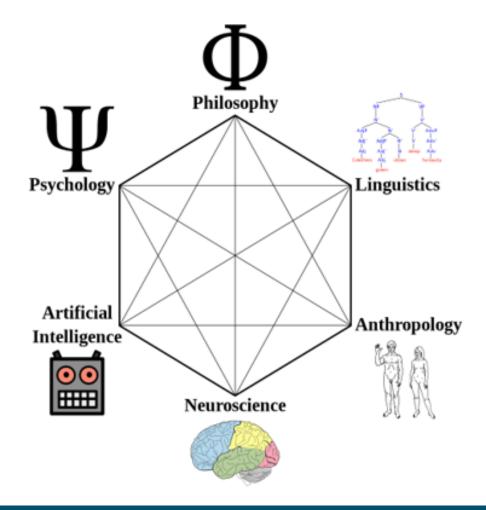


Which is more pizza?





















Can you hand me three cookies?







Can you hand me three cookies?

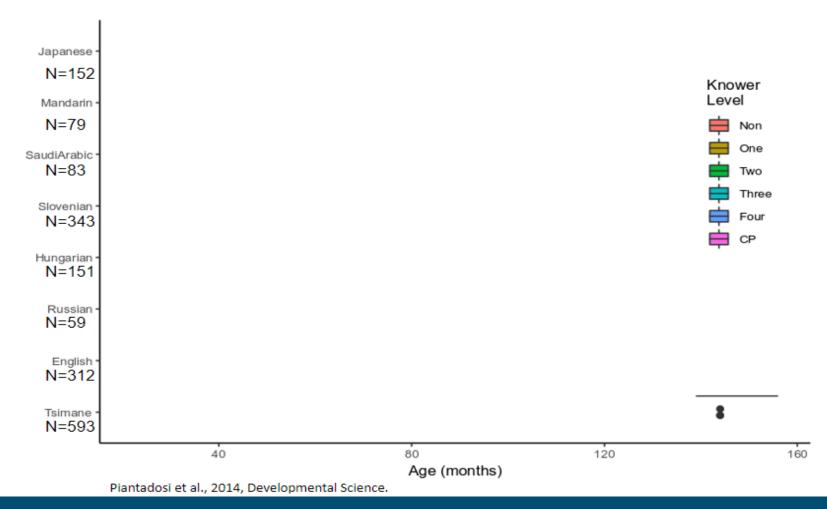


Can you hand me four cookies?



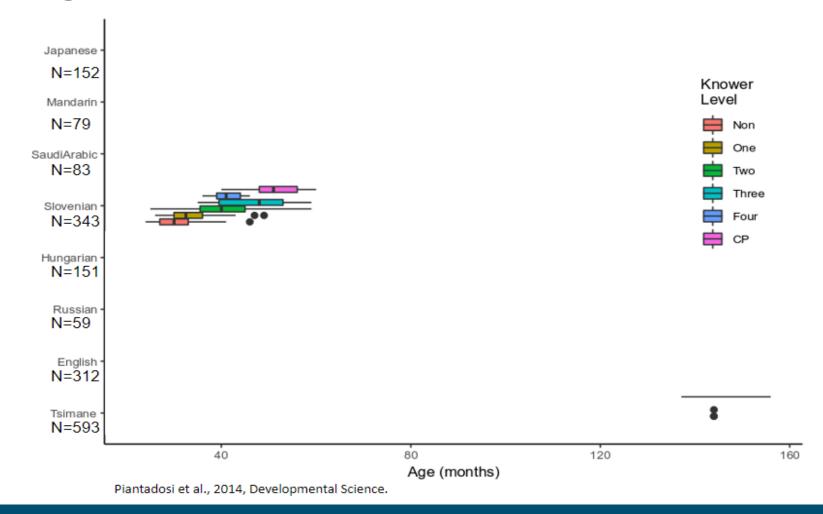






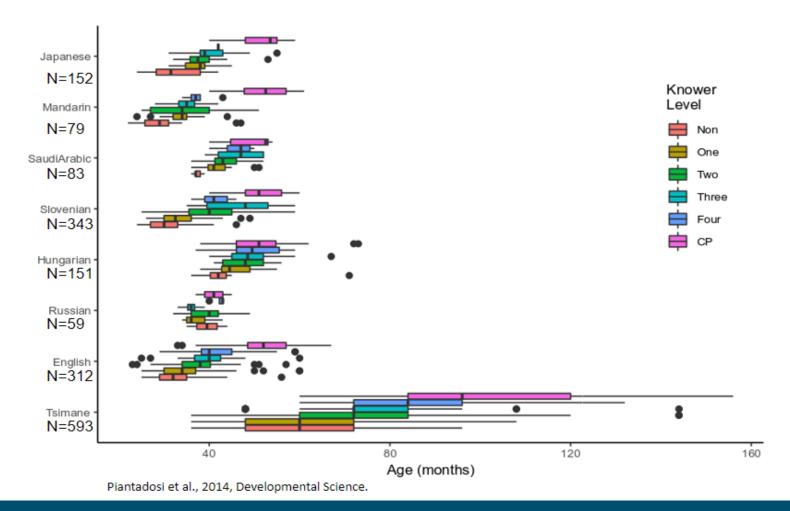






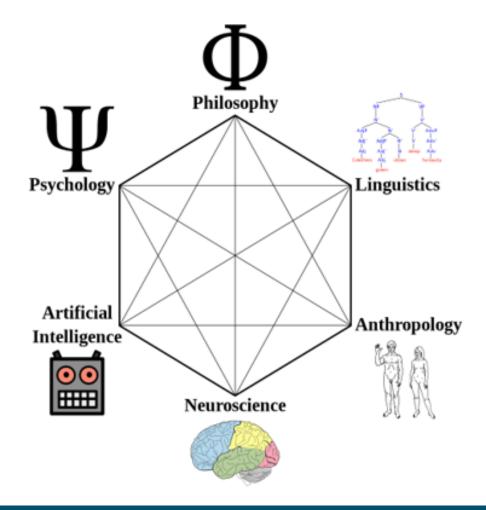










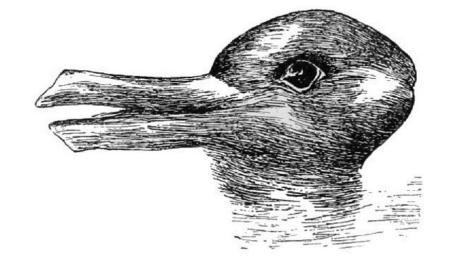






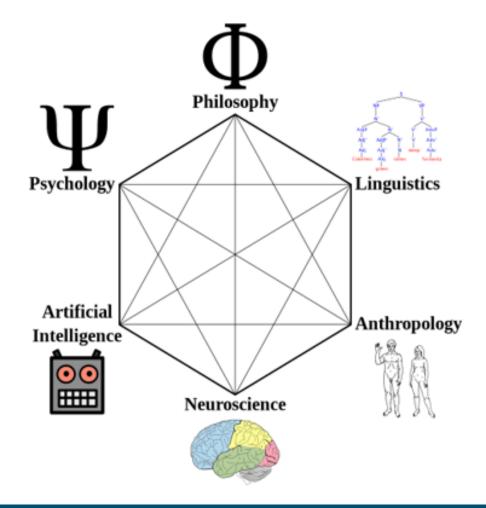
Philosophy

- Philosophy of Mind
- Philosophy of Language
- Philosophy of Computation
- Mental Architectures
- Mind-Body Relations: Embodied Cognition







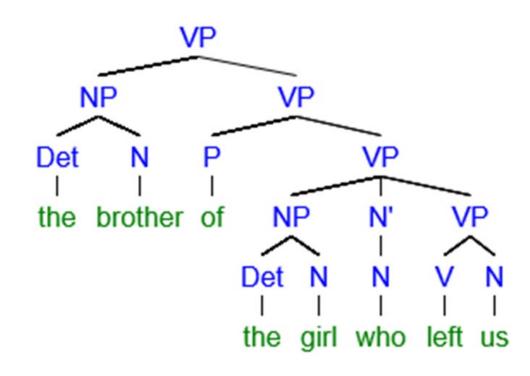






Linguistics

- Phonetics/Phonology
- Morphology
- Syntax
- Semantics/Pragmatics
- Sociolinguistics
- Psycholinguistics
- Historical Linguistics
- Language Evolution

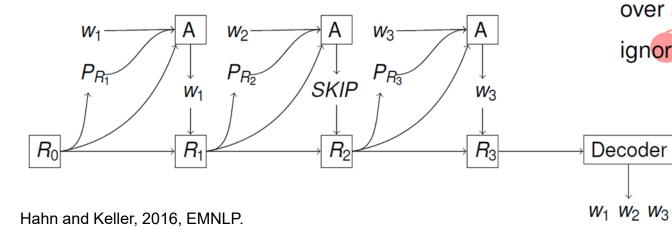






Linguistics

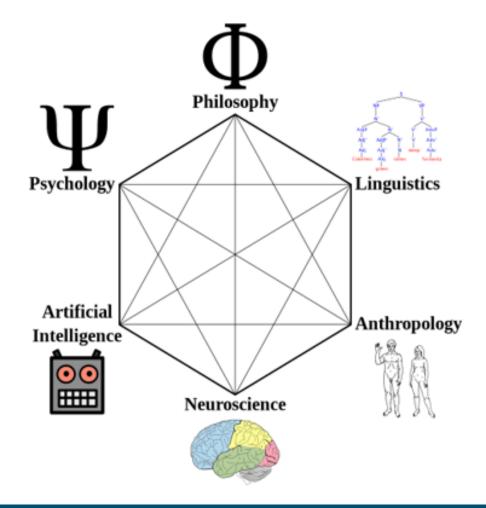




The two young sea-lions took not the slightest interest in our arrival. They were playing on the jetty, rolling over and tumbling into the water together, entirely ignoring the human beings edging awkwardly round



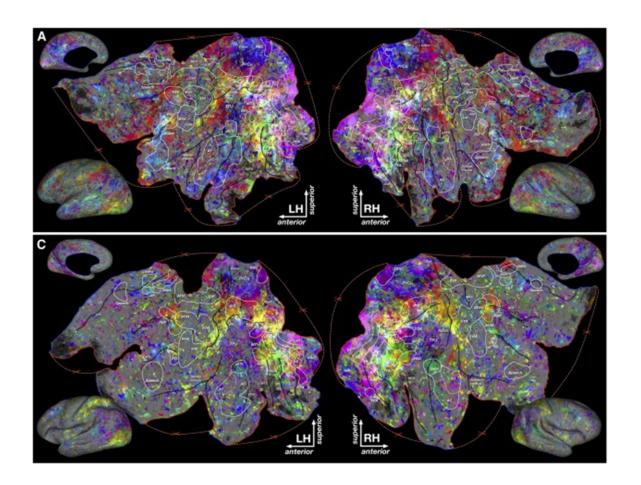






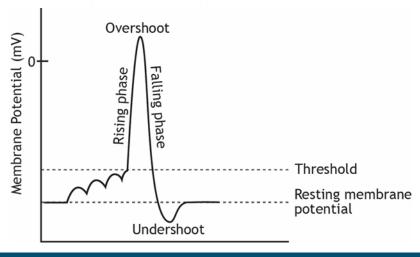


Neuroscience



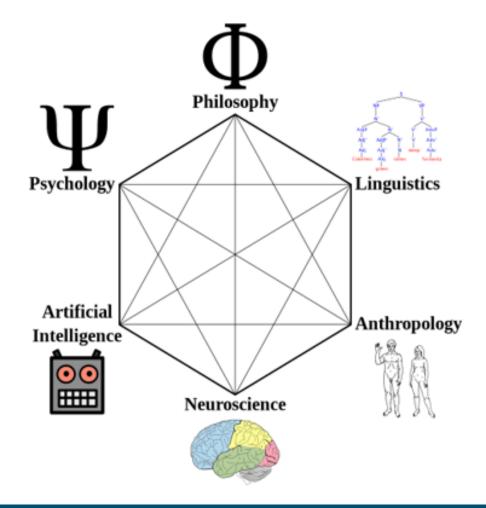












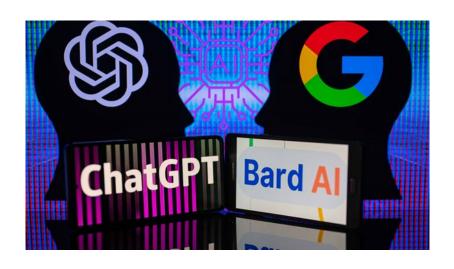




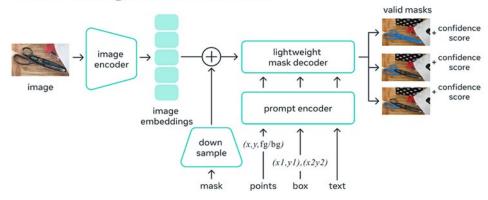
Artificial Intelligence

- Natural Language Processing
- Computer Vision
- Planning and Reasoning
- Robotics and Motor Control
- Machine Learning



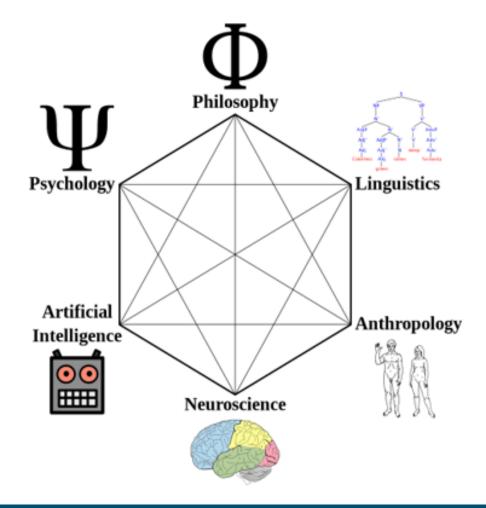


Universal segmentation model













Graduate attributes

- Build and evaluate computational models of cognition
- Work confidently and collaboratively across disciplines
- Demonstrate proficiency in behavioural/computational research skills
- Communicate (oral and written) effectively to diverse stakeholders
- Demonstrate deep understanding of at least one specialist area of cognition:
 - Natural Language Processing
 - Computational Neuroscience





Cognitive Science MSc (180 credits)

2022/2023 Program

Mandatory Courses (100 credits)

Seminar in Cognitive Modelling (S1+S2, 20 credits)

Computational Cognitive Science (S1, 10 credits)

Informatics Project Proposal (S2, 10 credits)

MSc Dissertation (Summer, 60 credits)

Electives (60 credits)

Cognitive Science Courses (20 credits)

Computational Neuroscience (S1, 10 credits)
Computational Cognitive Neuroscience (S2, 10 credits)

Accelerated Natural Language Processing (S1, 20 credits)

NL Understanding Generation & MT (S2, 20 credits)

Speech Processing (S1, 20 credits)

Automatic Speech Recognition (S2, 10 credits)

Speech Synthesis (S2, 10 credits)

Simulating Language (S2, 20 credits)

Human-Computer Interaction (S1, 10 credits)
The Human Factor: Working with Users (S2, 10 credits)





Cognitive Science MSc (180 credits)

Electives (60 credits)

Informatics

Natural Computing (S1, 10 credits)
Bioinformatics (S1, 10 credits)

Algorithmic Game Theory (S2, 10 credits)
Methods for Causal Inference (S2, 10 credits)
Reinforcement Learning (S2, 10 credits)
Machine Learning (check for yourself)

Computer Graphics (S1, 10 credits)
Image and Vision Computing (S1, 10 credits)
Advanced Vision (S2, 10 credits)

Robotics: Science and Systems (S1, 20 credits)

Philosophy, Psychology & Language Science

Ethics of Aritificial Intelligence (S2, 20 credits)

...

Brain Imaging in Cognitive Neuroscience (S2, 10 credits)

...

Pragmatics (S1, 10/20 credits) Language Production (S1, 10 credits) Online Experiment Design (S1, 10 credits) Origins and Evolution of Language (20 credits)

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