MEi:
CogSci

Vienna
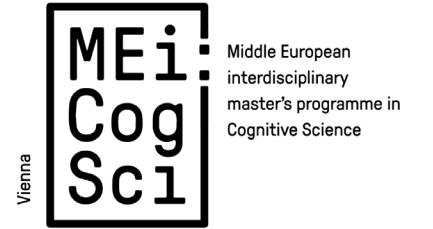
Middle European
interdisciplinary
master's programme in
Cognitive Science

Mobility Semester at University of Vienna

Winter Semester 2022/2023

New Trends in Cognitive Science

- New Trends in Cognitive Science Seminar (6 ECTS)
  - WS 2021: The predictive coding approach to mind/cognition
    - Ronald Sladky, Katja Hellekes

- Journal Club (4 ECTS)
  - WS 2021: MEi:CogSci Journal Club - Causal inference in cognitive neuroscience (neuroimaging and stimulation)
    - Maria Vasileiadi

  Information for incoming students here.

Projects in Vienna

- Supervision at
  - University of Vienna

  - Austrian Institute of Technology (AIT)
  - Austrian Research Institute for Artificial Intelligence (OFAI)
  - Central European University (CEU) in Vienna
  - Danube University Krems
  - Johannes Keppler Universität Linz (JKU) in Vienna

  - Konrad Lorenz Institut (KLI)
  - Medical University of Vienna (MUW)
  - Technical University Vienna (TU)
  - University of Applied Sciences BFI Vienna (FH)
  - University of Veterinary Medicine Vienna (UVM)
  - Vienna University of Economics and Business (WU)
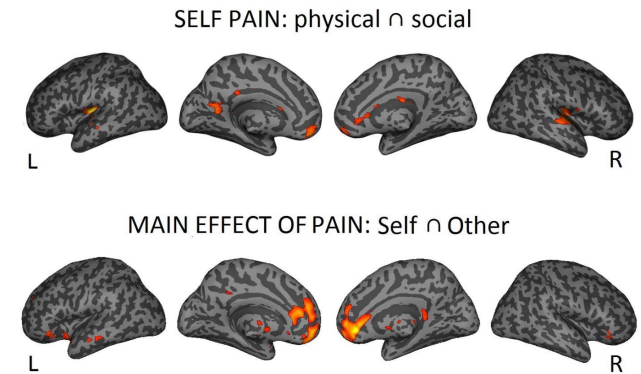
Department of Philosophy – University of Vienna

- Knowledge creation – Markus Peschl & OCKO research group (link)
  - Knowledge management
  - Innovation
  - Design thinking

- Philosophy of technology – Mark Coeckelbergh

- Cognitive linguistics, natural language processing –Stela Manova
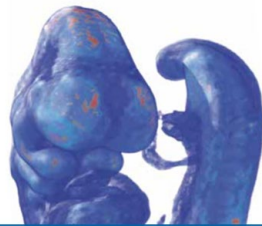
Faculty of Psychology

- Cognitive aesthetics – Helmut Leder

- Social neuroscience – Claus Lamm, Giorgia Silani
  - Empathy
  - Neurobiology of social decision making

- Neurofeedback – Frank Scharnowski

- Predictive processing, Bayesian brain – Ronald Sladky

- (Visual) Attention – Ulrich Ansorge

SCAN-Unit (web) – EVA-Lab (web)

SELF PAIN: physical ∩ social

L   R

MAIN EFFECT OF PAIN: Self ∩ Other

L   R

Department of Computer Science

- Neuroinformatics – Moritz Grosse-Wentrup
  - Brain-computer interfaces
  - Neural signatures of motor skill

- Visualiziation, data analysis – Torsten Möller

- Educational Technologies – Renate Motschnig
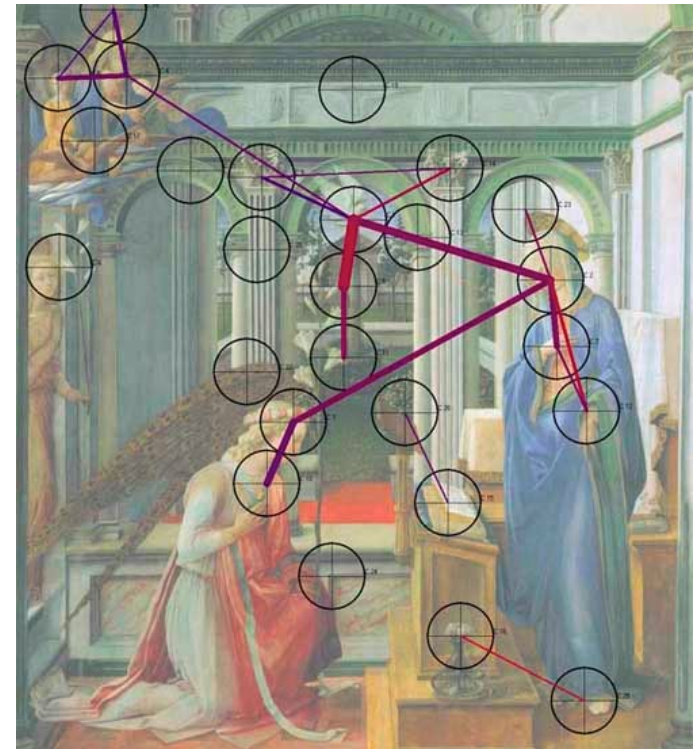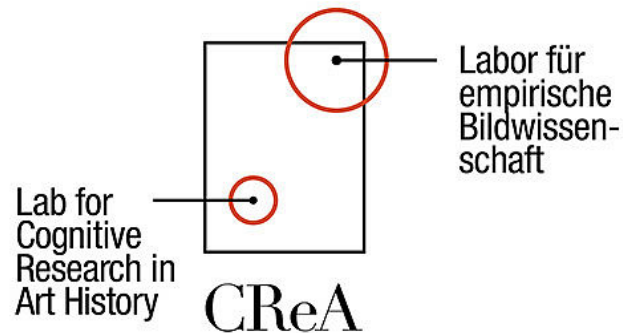
Visualization & Data Analysis ▶

Department of Art History - Lab for Empirical Studies in Art History

- Perception and cognition of arts – Raphael Rosenberg
  - Eye-tracking studies art experience

Labor für empirische Bildwissen-schaft

Lab for Cognitive Research in Art History

CReA

Department of Linguistics – University of Vienna

- Neuro-, Patho-, Psychololinguistics – Jutta Müller

- Theory and history of linguistics – Daniel Bühring

- Language acquisition – Susanne Reiterer
  - Second language acquisition
  - Lexical and morphological acquisition
  - Connectionist modelling of language acquisition

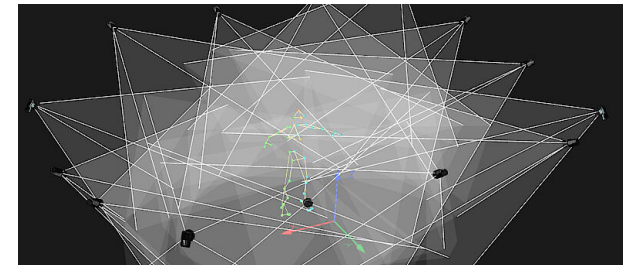# Department of English and American Studies, Department of German Studies

- Structural Analysis, research methods in linguistics, cultural aspects of language – Nikolaus Ritt

- Cognitive poetics – Thomas Eder
  - Language and Cognition (historical and linguistic perspective)
  - Metaphors

- Linguistic variation– Korecky-Kröll

- Center for Translation Studies (web)
  - Cognitive processes in the workplace – Hanna Risku

Media Lab
Faculty of Philological and Cultural Studies

- Musicology – Christoph Reuter
  - Psychoacoustics
  - Movement in music
  - Neuroscience of music

- web (only in German for now)

Department of Cognitive Biology/ Deptartment of Behavioural Biology

- Social cognition in non-human animals – Thomas Bugnyar
  - Theory of mind
  - Empathy
  - imitation and social learning

- Cognitive mechanisms of language, music and arts – Tecumseh Fitch

- Behavioural flexibility – Sabine Tebbich

- Messerli Research Institute (web) – University of Veterinary Medicine
  - Ludwig Huber

Research Institutes: Cognitive / Behavioural Biology

- Konrad Lorenz Insitute (KLI) ([web](web))
  - Theoretical biology
  - Evolutionary theory
  - Computational biology
  - Biocognition – Isabella Sarto-Jackson

- Konrad Lorenz Research Station (KLF Grünau) ([web](web))
  - Co-evolution
  - Bioacoustics
  - Anthropogenic effects
  - Citizen science

An Institute for the Advanced Study of Natural Complex Systems

KLI

Artificial Intelligence

- **Section for Artificial Intelligence and Decision Support (AID)** – Medical University of Vienna ([web](web))
  - Models of personality and emotions, software agents – Paolo Petta
  - Knowledge-based systems – Robert Trappl
  - Neuroinformatics – Georg Dorffner
  - Intelligent data analysis in medicine – Ernst Buchberger

- Austrian Research Institute for Artificial Intelligence (OFAI) ([web](web))
  - Natural language processing – Brigitte Krenn, Friedrich Neubarth
- Johannes Keppler Universität Linz (JKU), formerly OFAI
  - Music processing and machine learning – Arthur Flexer

Neuroscience Research Institutes
Medical University of Vienna

- Center for Brain Research ([web](web))
  - Neuropharmacology – Margot Ernst
  - Cognitive neurobiology – Thomas Klausberger

- Neuroimaging Labs (NIL) ([web](web))
  - Neuroscience for psychiatry and psychotherapy – Rupert Lanzenberger
    - Neuropsychopharmacology
    - Neurobiology of emotion and cognition

- High Field MR Center ([web](web))

- Windischberger Lab ([web](web))
  - Cross-disciplinary applications of fMRI – Christian Windischberger
    - fMRI-TMS applications
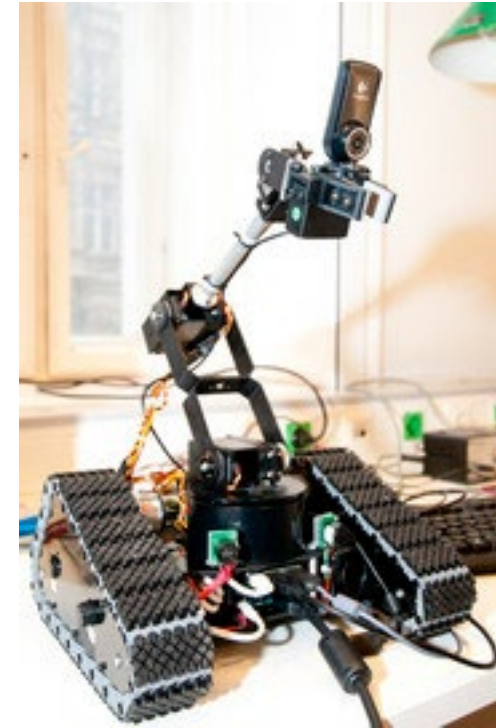   - Neural connectivity

Cooperation: Danube University Krems

- Research Center KnowComm, Department for Knowledge and Communication Management ([web](#))
  - ◦ Socio-cognitive networks – Lukas Zenk
    - - Organisational improvisation
  - ◦ Sustainability design / management – Gerald Steiner

Cooperation: Technical University of Vienna

- Automation and Control Institute (ACIN) – web
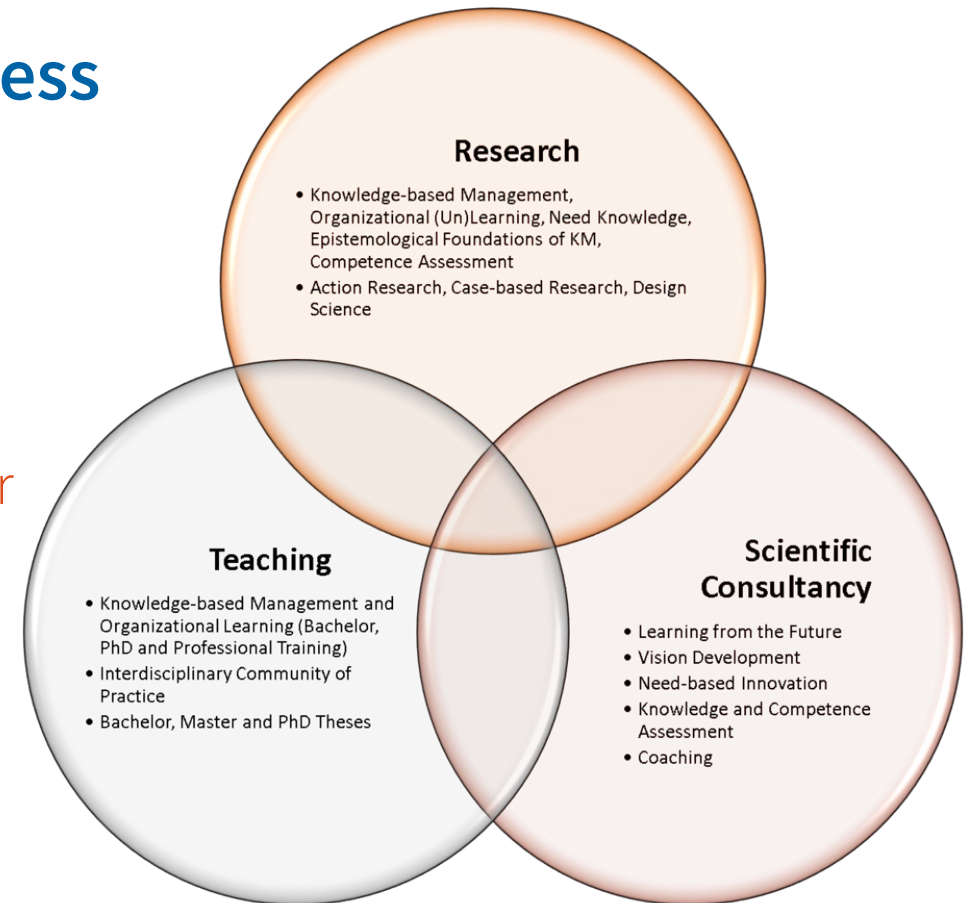 ◦ Vision for Robotics – Michael Zillich

Cooperation:
Vienna University of Economics and Business

- Division for Knowledge-based Management ([web](web))
  - Knowledge Management and organizational learning
    – Florian Kragulij
  - Vision and Innovation
  - Knowledge-based systems analysis – Alexander Kaiser
- Sustainable Computing Lab ([web](web))
  - Human needs management – Soheil Human

Cooperation: Central European University in Vienna, Dept. Of Cognitive Science
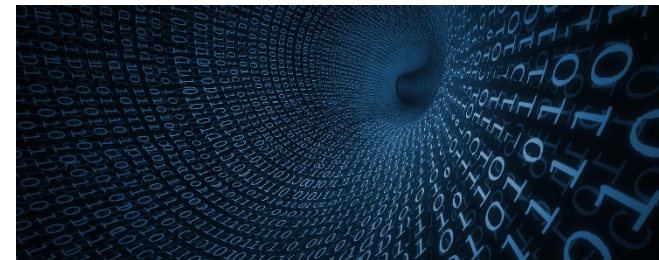
- Joint Action and Attention – Gunther Knoblich, Natalie Sebanz

  SOMBY Lab – web

- Adaptive Cognition and Economics – Christophe Heintz

- Vision and Learning – Jozef Fiser

Cooperation: Complexity Science Hub Vienna

- Complexity Science – David Garcia, Hannah Metzler
  - Collective decision making
  - Sentiment analysis

web

Cooperations

- Austrian Institute of Technology
  - Biosignal Processing ([web](#)) – Tilmann Kluge
    - Advanced algorithms for brain signal analysis
    - Automatic EEG analysis of epilepsy

- Austrian Academy of Science
  - Group on Psychoacoustics and Experimental Audiology ([web](#)) – Bernhard Laback
    - Human auditory perception
    - Perceptual deficits and auditory performance
    - Hearing with cochlear implants

Information for Students

- Information for incoming students here
  - … for outgoing students here

- List of projects

- Erasmus+ in Vienna ([web](web))