

Vienna



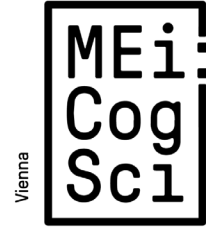
Middle European  
interdisciplinary  
master's programme in  
Cognitive Science







universität  
wien



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# Mobility Semester at University of Vienna

Winter Semester 2023/2024

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## New Trends in Cognitive Science

- New Trends in Cognitive Science Seminar (6 ECTS)
  - WS 2022: The predictive coding approach to mind/cognition
    - Ronald Sladky, Katja Hellekes
  
- Journal Club (4 ECTS)
  - WS 2022: MEi:CogSci Journal Club - Causal inference in cognitive neuroscience (neuroimaging and stimulation)
    - Maria Vasileiadi

Information for incoming students [here](#).

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## 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 Kepler 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)
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## Department of Philosophy – University of Vienna

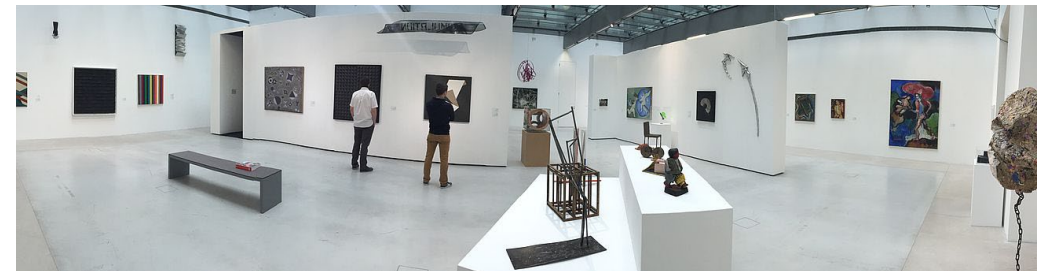
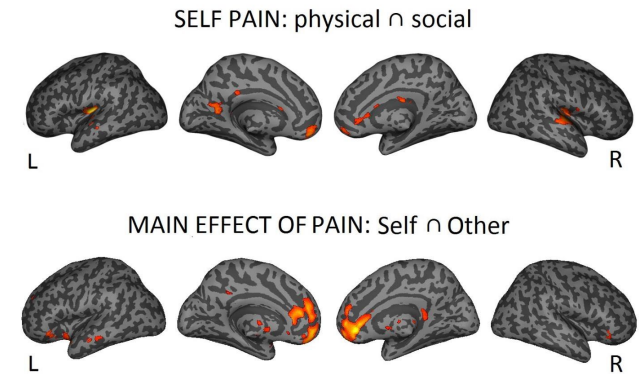
- Knowledge creation – Markus Peschl & OCKO research group ([link](#))
  - Knowledge management
  - Innovation
  - Design thinking
- Philosophy of technology – Mark Coeckelbergh
- Cognitive linguistics, natural language processing – Stela Manova



## Faculty of Psychology

- Cognitive aesthetics – Helmut Leder, Matthew Pelowski
- 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](#))



## Department of Computer Science

- Neuroinformatics – **Moritz Grosse-Wentrup**
  - Brain-computer interfaces
  - Neural signatures of motor skill
- Visualization, data analysis – **Torsten Möller, Laura Kösten**
- Educational Technologies – **Renate Motschnig**

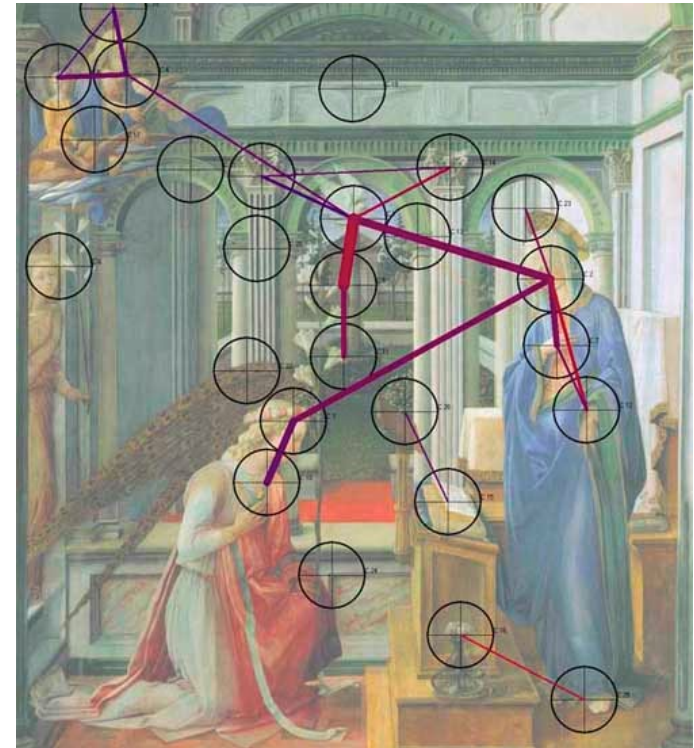
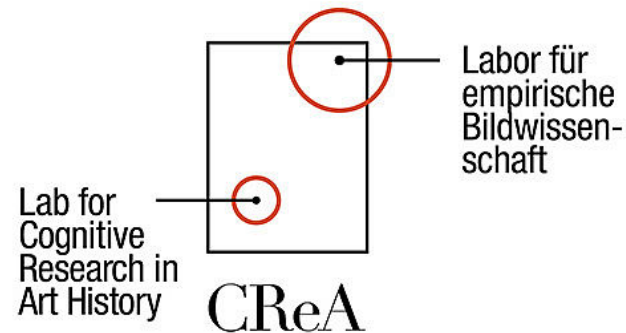


Visualization &  
Data Analysis ▶



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

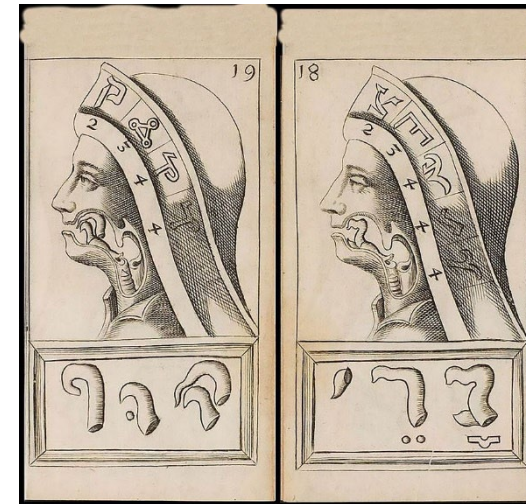
- Perception and cognition of arts – Raphael Rosenberg, Luise Reitstätter
  - Eye-tracking studies art experience





## Department of Linguistics – University of Vienna

- Neuro-, Patho-, Psycholinguistics – 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 – **Katherina Korecky-Kröll**
- Center for Translation Studies ([web](#))
  - Cognitive processes in the workplace – **Hanna Risku**

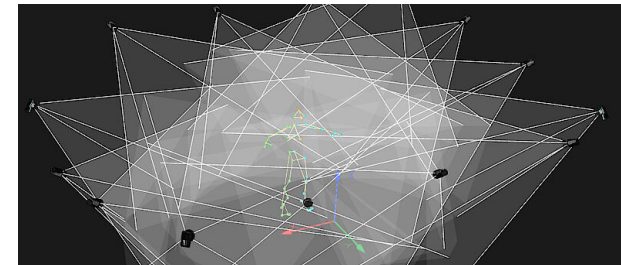


## Department of Musicology

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

## Media Lab

- [web](#) (only in German for now)





## Department of Cognitive Biology/ Department 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, Alice Auersperg**

## Research Institutes: Cognitive / Behavioural Biology

- Konrad Lorenz Institute (KLI) ([web](#))
  - Theoretical biology
  - Evolutionary theory
  - Computational biology
  - Biocognition – **Isabella Sarto-Jackson**
- Konrad Lorenz Research Station (KLF Grünau) ([web](#))
  - Co-evolution
  - Bioacoustics
  - Anthropogenic effects
  - Citizen science

An Institute for the Advanced Study  
of Natural Complex Systems



## Artificial Intelligence

- Section for Artificial Intelligence and Decision Support (AID) – Medical University of Vienna ([web](#))
  - Models of personality and emotions, software agents – **Paolo Petta**
  - Knowledge-based systems – **Robert Trappl**
  - Neuroinformatics – **Georg Dorffner**
- Austrian Research Institute for Artificial Intelligence (OFAI) ([web](#))
  - Natural language processing – **Brigitte Krenn, Friedrich Neubarth, Stephanie Gross**
- Johannes Kepler Universität Linz (JKU), formerly OFAI
  - Music processing and machine learning – **Arthur Flexer**





## Neuroscience Research Institutes Medical University of Vienna

- Center for Brain Research ([web](#))
  - Neuropharmacology – Margot Ernst
  - Cognitive neurobiology – Thomas Klausberger
- Neuroimaging Labs (NIL) ([web](#))
  - Neuroscience for psychiatry and psychotherapy – Rupert Lanzenberger
    - Neuropsychopharmacology
    - Neurobiology of emotion and cognition
- High Field MR Center ([web](#))
- Windischberger Lab ([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](#)
  - Markus Vincze, Lara Lammer, Raphael Deimel

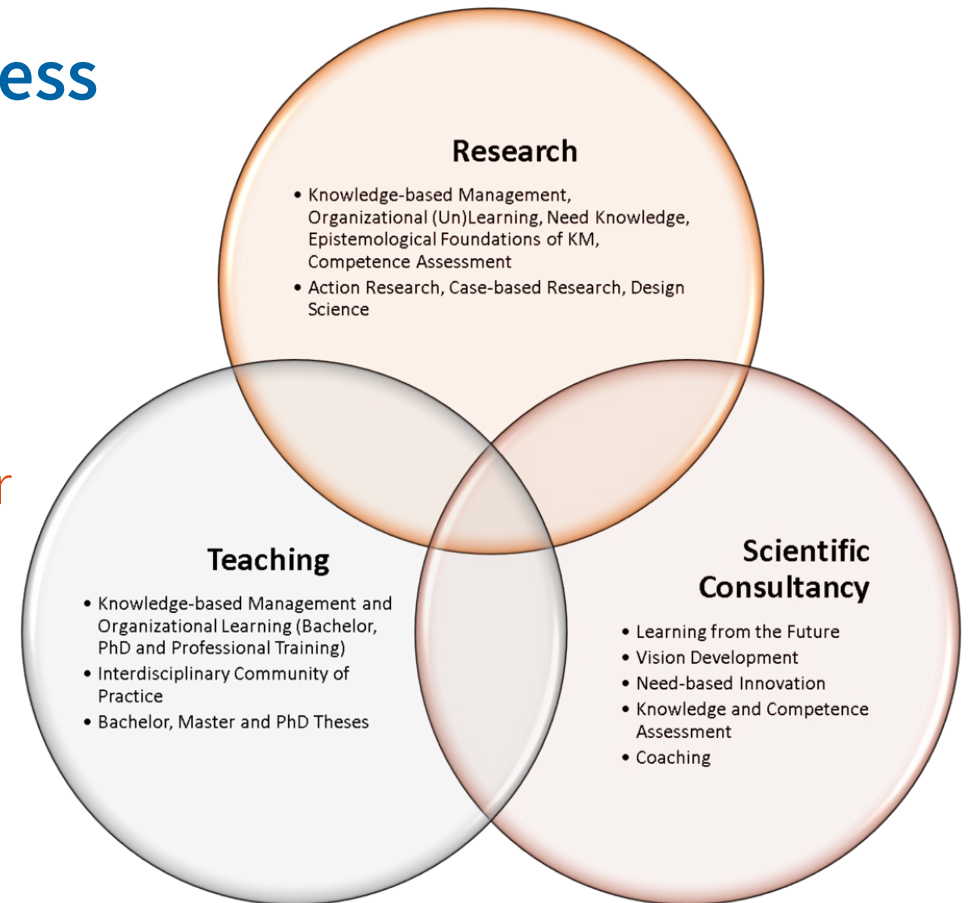
ACIN





## Cooperation: Vienna University of Economics and Business

- Knowledge Management Group ([web](#))
  - Knowledge Management and organizational learning – **Florian Kragulij**
  - Vision and Innovation
  - Knowledge-based systems analysis – **Alexander Kaiser**
- Sustainable Computing Lab ([web](#))
  - Human needs management – **Soheil Human**
- Institute for Cognition and Behavior ([web](#))
  - **Susann Fiedler, Hooman Habibnia**



## Cooperation: Central European University in Vienna, Dept. Of Cognitive Science

- Joint Action and Attention – Günther Knoblich, Natalie Sebanz  
SOMBY Lab – [web](#)
- Adaptive Cognition and Economics – Christophe Heintz
- Vision and Learning – Jozef Fiser



## Cooperation: Complexity Science Hub Vienna

- Complexity Science – Hannah Metzler, David Garcia
  - 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](#))
- Research in CogSci at the University of Vienna:  
[Cognitive Science Hub](#)

