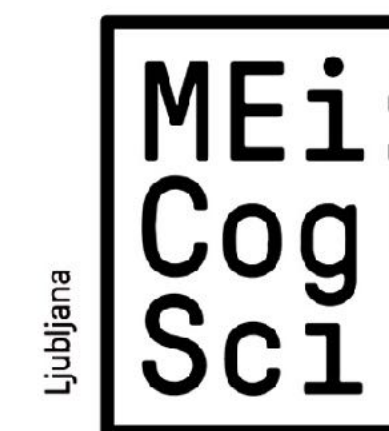


# Mobility semester at the University of Ljubljana



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Middle European  
interdisciplinary  
master's programme in  
Cognitive Science

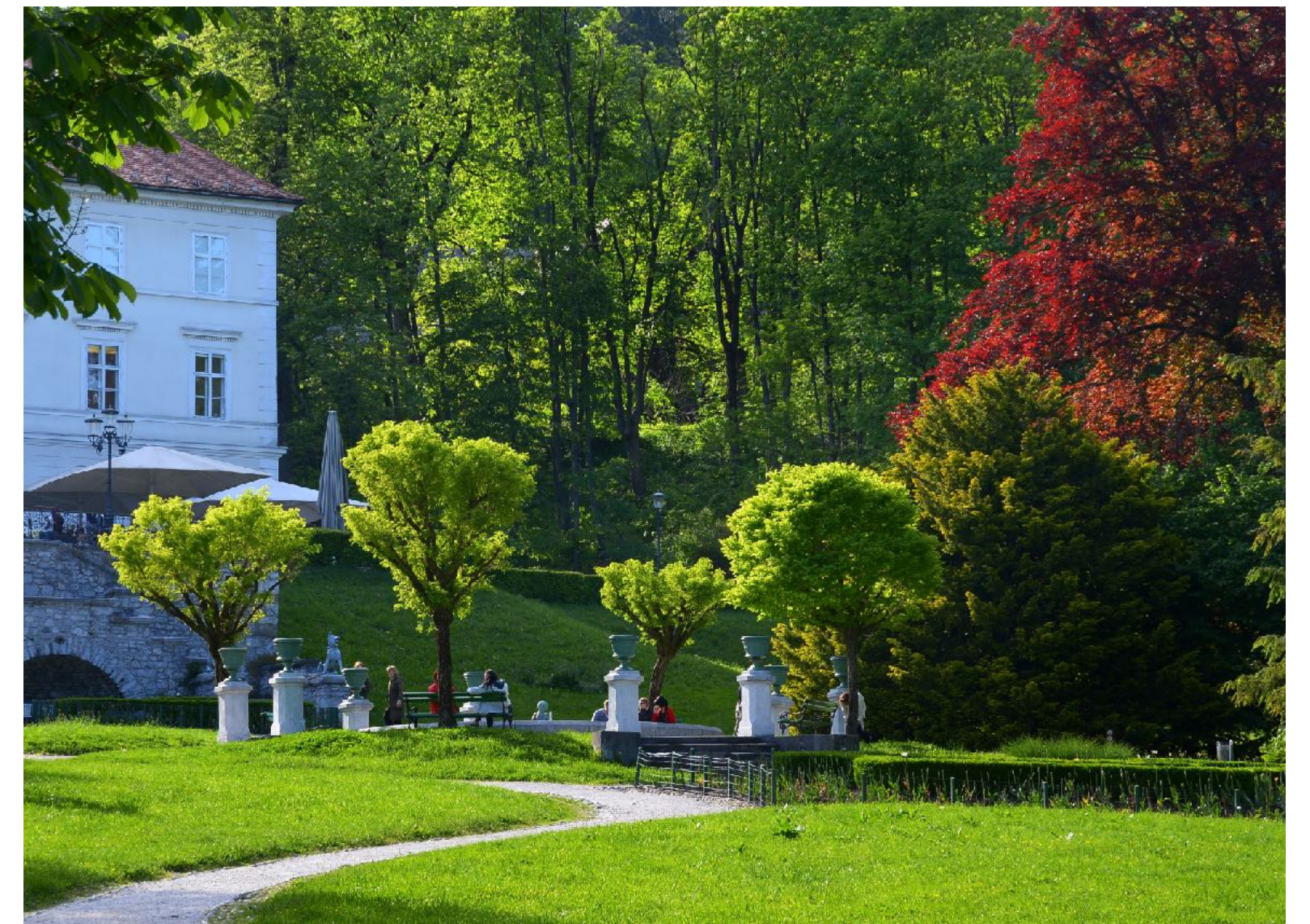




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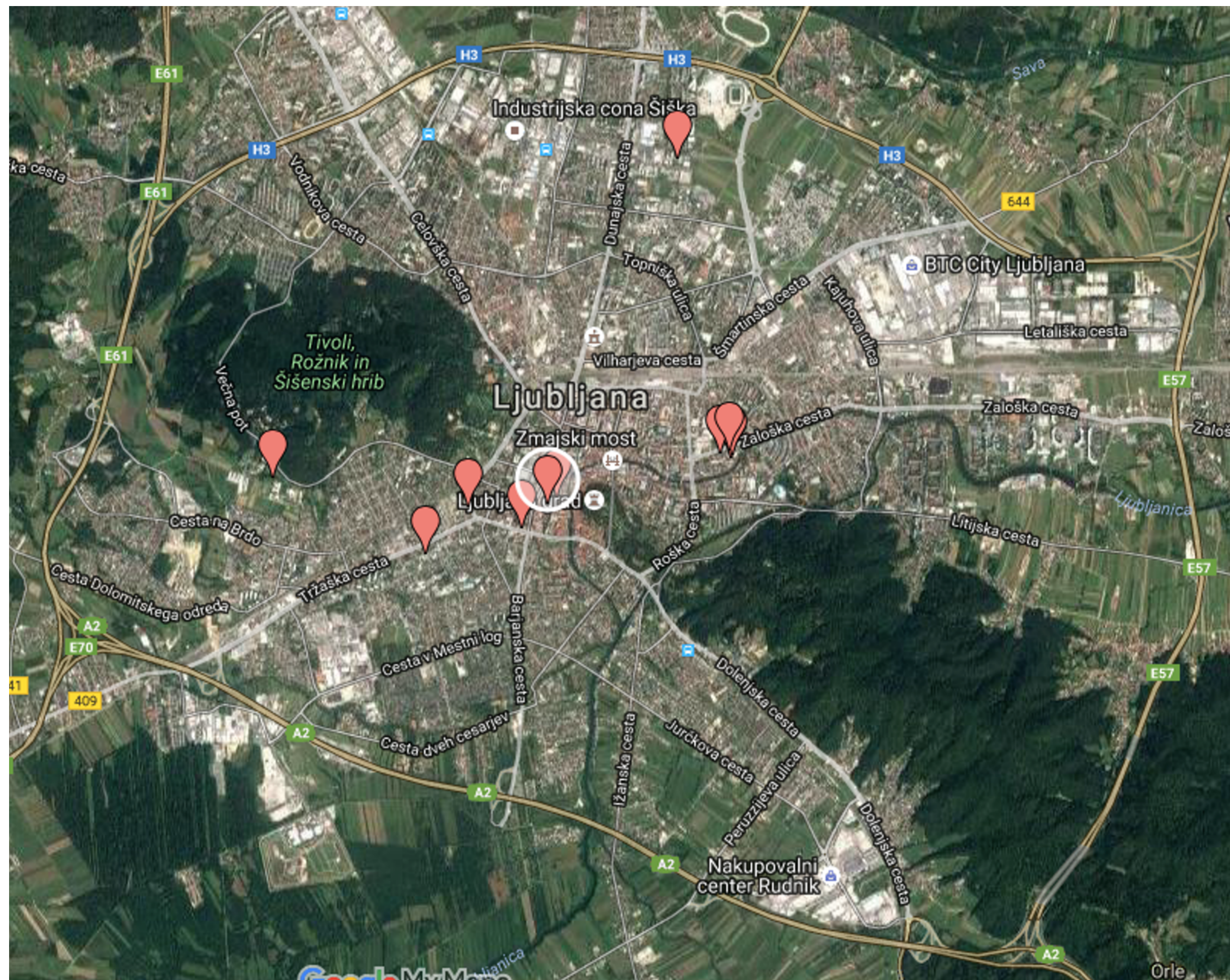
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# Cognitive science venues in Ljubljana





# Center for CogSci & Observatory lab





# Mobility projects

- Research coordinator: Anka Slana Ozimič, [anka.slanaozimic@ff.uni-lj.si](mailto:anka.slanaozimic@ff.uni-lj.si)

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# NEUROLOGY & COGNITIVE NEUROSCIENCE

- Laboratory for Clinical Neuroscience, University Medical Centre Ljubljana, Department of Neurology
  - Dejan Georgiev, [dejan.georgiev@kclj.si](mailto:dejan.georgiev@kclj.si)
  - Deep brain stimulation and movement disorders
  - Neurodegenerative diseases and motor control disorders
  - Eye movement and cognitive abnormalities in patients with Parkinson's disease
  - The role of diaphragmatic movements and cognition in breathing abnormalities in Parkinson's disease

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- Laboratory for Cognitive Neuroscience, University Medical Centre Ljubljana, Department of Neurology
  - Zvezdan Pirtošek
  - Contact: Vesna van Midden, [vesna.vanmidden@kclj.si](mailto:vesna.vanmidden@kclj.si)
  - <http://www.kobz.si/en/LCN.php>
  - Studying cognition with EEG/TMS (EEG and TMS Lab), with a focus on neurological and neuropsychiatric disorders





- University Psychiatric Clinic Ljubljana
  - Jure Bon: [jure.bon@psih-klinika.si](mailto:jure.bon@psih-klinika.si)
  - Studying cognition with EEG and TMS in health and psychiatric disorders: e.g., electroencephalographic properties of clinical depression





# ... & AI

- Laboratory for Neuromechanics and Biorobotics, Department of Automatics, Biocybernetics, and Robotics, Jožef Stefan Institute
  - Jan Babič, [jan.babic@ijs.si](mailto:jan.babic@ijs.si)
  - <https://abr.ijs.si/people/jan-babic/>
  - Measurement of neural correlates of motor errors in movement learning





# COGNITIVE NEUROSCIENCE & PSYCHOLOGY

- Mind and Brain Lab, Department of Psychology, Faculty of Arts
  - Grega Repovš, Anka Slana Ozimič, Nina Purg ...
  - Contact: [anka.slanaozimic@ff.uni-lj.si](mailto:anka.slanaozimic@ff.uni-lj.si)
  - <http://psy.ff.uni-lj.si/mblab/en>
- Multimodal study of working memory and cognitive control employing EEG, fMRI, eye-tracking and behavioural studies.
- Brain connectivity studies: focus on data collection, development of tools for fMRI and EEG functional connectivity analysis, and their application to existing and novel datasets

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# NEUROLINGUISTICS

- Department of Comparative and General Linguistics, Faculty of Arts
  - Christina Manouilidou, [christina.manouilidou@ff.uni-lj.si](mailto:christina.manouilidou@ff.uni-lj.si)
  - Language processing in healthy and brain-damaged population
- Institute for Maternal and Child Health - IRCCS “Burlo Garofolo” - Trieste & Department of Comparative and General Linguistics, Faculty of Arts
  - Amanda Saksida, [amanda.saksida@burlo.trieste.it](mailto:amanda.saksida@burlo.trieste.it)
  - Sound symbolism and sound iconicity in relation to synaesthesia affect how lexicons are built across languages

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# PSYCHOLOGY

- Department of Psychology, Faculty of Arts
  - Anja Podlesek, Luka Komidar ...
  - Contact: [anja.podlesek@ff.uni-lj.si](mailto:anja.podlesek@ff.uni-lj.si)
- Factors of performance in cognitive tests for measuring executive functions
- Investigation of changes in cognitive test performance during cognitive training
- Interactive cognitive training for the elderly (with Andrej Košir, LUCAMI lab, Faculty of Electrical Engineering)

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# PSYCHOPHYSIOLOGY

- Lab for Metrology and Quality, Faculty of Electrical Engineering
  - Gregor Geršak, [gregor.gersak@fe.uni-lj.si](mailto:gregor.gersak@fe.uni-lj.si)
  - [https://www.fe.uni-lj.si/en/research/chairs\\_and\\_laboratories/laboratories/2008090810033250/](https://www.fe.uni-lj.si/en/research/chairs_and_laboratories/laboratories/2008090810033250/)





# EMPIRICAL PHENOMENOLOGY

- Observatory: Laboratory for empirical phenomenology, Center for Cognitive Science, Faculty of Education
  - Urban Kordeš, Toma Strle, Jaša Černe (contact: [jasa.cerne@pef.uni-lj.si](mailto:jasa.cerne@pef.uni-lj.si))
  - <http://observatory.pef.uni-lj.si>
  - Ethnography of everyday experience
  - The experience of decision-making
  - Contemplative phenomenology: meditation as a tool for investigating consciousness (<https://philpapers.org/rec/KOREOM>)
  - Potentially also: Experience of space in learning contexts

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# PHILOSOPHY

- Department of philosophy, Faculty of Arts
  - Olga Markič, [olga.markic@ff.uni-lj.si](mailto:olga.markic@ff.uni-lj.si)
    - Science, values and society; Cognitive science in the world of sport
  - Sebastjan Vörös, [sebastjan.voros@ff.uni-lj.si](mailto:sebastjan.voros@ff.uni-lj.si)
    - Francisco Varela's work on life, mind and consciousness
  - Maja Malec, [maja.malec@ff.uni-lj.si](mailto:maja.malec@ff.uni-lj.si)
    - Philosophy of mind, epistemology





- Department of Philosophy, Faculty of Arts & LMU München
  - Borut Trpin, [borut.trpin@gmail.com](mailto:borut.trpin@gmail.com)
  - Computational philosophy; theories of rationality
- Center for Cognitive Science, Faculty of Education
  - Toma Strle, [toma.strle@pef.uni-lj.si](mailto:toma.strle@pef.uni-lj.si)
  - Decision-making: 4E approaches to DM; everyday DM & existential choice
  - . . .

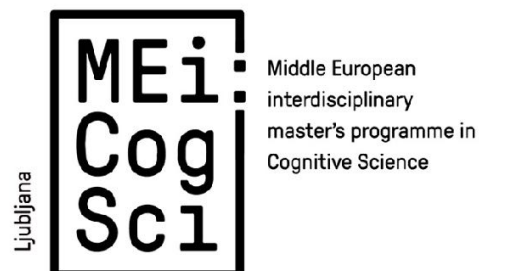




# COMPUTER SCIENCE & AI

- Faculty of Computer and Information Science
  - Artificial Intelligence Lab
    - Ivan Bratko, [ivan.bratko@fri.uni-lj.si](mailto:ivan.bratko@fri.uni-lj.si)
    - Explainable machine learning; Explainable machine problem-solving
  - Laboratory for Cognitive Modelling
    - Marko Robnik Šikonja, [robniksikonja@fri.uni-lj.si](mailto:robniksikonja@fri.uni-lj.si)
    - Machine learning and natural language processing
  - Bioinformatics Laboratory,
    - Janez Demšar, [janez.demsar@fri.uni-lj.si](mailto:janez.demsar@fri.uni-lj.si)
    - Machine learning, data mining (Orange) ...

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# OTHER TOPICS

- If you don't find a topic of interest, you can send an inquiry to Anka Slana Ozimič ([anka.slanaozimic@ff.uni-lj.si](mailto:anka.slanaozimic@ff.uni-lj.si)) (for, e.g., music perception, user experience, virtual reality, etc.).
- Specific topics/projects are dependent also upon ongoing projects in labs during the upcoming mobility semester.





# COURSES

- Trends in cognitive science (10 ECTS; Toma Strle, Jaša Černe)
  - Topic 22/23: Neurophenomenology
- Electives 22/23
  - Seminars in clinical neuroscience (5 ECTS; Zvezdan Pirtošek et al.)
  - Psychological theories of rationality: how do humans think, reason and judge (5 ECTS; Borut Trpin & Nastja Tomat)
  - Exploring human experience: beliefs, emotions, self (Urban Kordeš, Toma Strle & Jaša Černe; 5 ECTS)
- Courses at other faculties for mobility students:  
[http://www.pef.uni-lj.si/kognitivna/meicogsciprogramme\\_mobility.html](http://www.pef.uni-lj.si/kognitivna/meicogsciprogramme_mobility.html)

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# Further info

- Research projects coordinator: Anka Slana Ozimič, [anka.slanaozimic@ff.uni-lj.si](mailto:anka.slanaozimic@ff.uni-lj.si) (for inquiries on other potential project topics)
- Info page for mobility students: [http://www.pef.uni-lj.si/kognitivna/meicogsciprogramme\\_mobility.html](http://www.pef.uni-lj.si/kognitivna/meicogsciprogramme_mobility.html)
- International office of the Faculty of Education - Erasmus+ coordinators, [mednarodna@pef.uni-lj.si](mailto:mednarodna@pef.uni-lj.si)
- Contact Jaša Černe for other matters concerning mobility, [jasa.cerne@pef.uni-lj.si](mailto:jasa.cerne@pef.uni-lj.si) (or [toma.strle@pef.uni-lj.si](mailto:toma.strle@pef.uni-lj.si))

