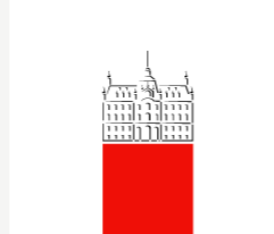
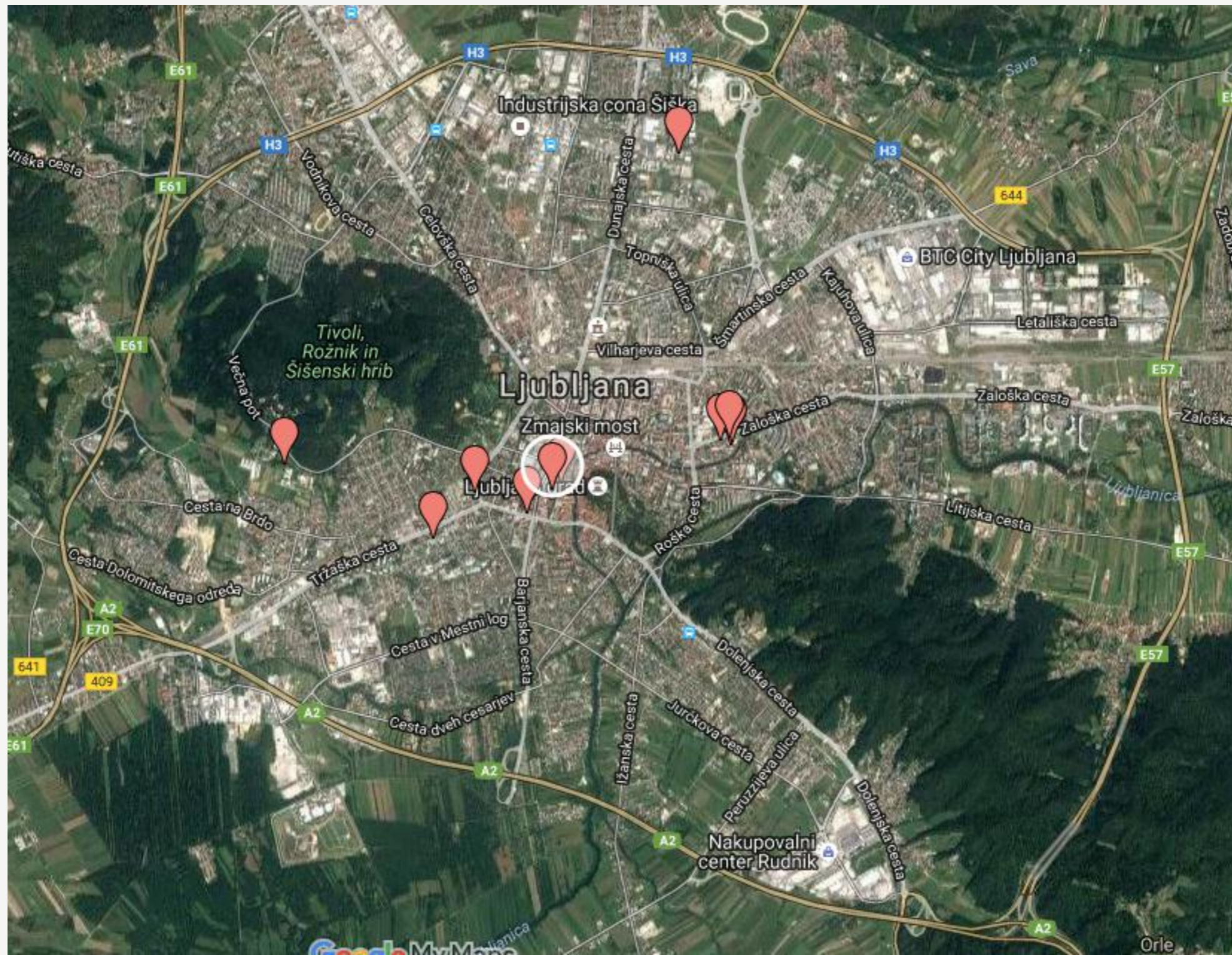


# MOBILITY UNIVERSITY OF LJUBLJANA

Univerza v Ljubljani



# Some of Ljubljana's cogsci spaces



# ZVEZDARNA



# OBSERVATORY



# Trends in cognitive science

- Urban Kordeš & Toma Strle
- Structure
  - Lectures
  - Collaborative work connected to seminar topic (last year's topic: neurophenomenology; this year's topic: decision-making)
  - Journal club

# Electives 17/18

- Seminars in clinical neuroscience (5 ECTS)
  - Zvezdan Pirtošek and colleagues
- Consciousness and Rationality (5 ECTS)
  - Maja Malec & Borut Trpin
- Courses at other faculties
  - See:  
[http://www.pef.uni-lj.si/kognitivna/meicogsciprogramme\\_mobility.html](http://www.pef.uni-lj.si/kognitivna/meicogsciprogramme_mobility.html) )

# POTENTIAL PROJECTS: COGNITIVE NEUROSCIENCE & PSYCHOLOGY

- Mind and Brain Lab, Department of Psychology, Faculty of Arts (<http://psy.ff.uni-lj.si/mblab/en/research>)
  - Grega Repovš, Anka Slana ...
  - Contact: [anka.slana@psy.ff.uni-lj.si](mailto:anka.slana@psy.ff.uni-lj.si)
  - Cognitive Neuroscience of working memory and cognitive control
    - Multimodal study of working memory and cognitive control employing EEG, fMRI, eye-tracking, behavioral studies
    - Possible topics: Visual and spatial working memory; Cognition-emotion interaction; Working memory and cognitive control in patient populations (schizophrenia, Parkinson's disease, major depression).
  - Brain connectivity studies:
    - Development of tools for fMRI and EEG functional connectivity analyses and their application to existing and novel datasets.

# POTENTIAL PROJECTS: COGNITIVE NEUROSCIENCE & PSYCHOLOGY

- Laboratory for Movement and Gait Disorders, Department of Neurology, University Medical Centre Ljubljana
  - Zvezdan Pirtošek, Blaž Koritnik ...
  - Contact: [aslana@kobz.si](mailto:aslana@kobz.si)
  - Gait and Cognition
  
  - Specific topics/projects are dependent upon ongoing projects in the lab during the exchange semester.



# POTENTIAL PROJECTS: COGNITIVE NEUROSCIENCE & PSYCHOLOGY

- Laboratory for Cognitive Neuroscience, Department of Neurology, University Medical Centre Ljubljana
  - Zvezdan Pirtošek, Blaž Koritnik, Jure Bon ...
  - Contact: [aslana@kobz.si](mailto:aslana@kobz.si)
  - Studying Cognition with TMS (TMS Lab)
  - Studying cognition with EEG (EEG Lab)
  
  - Specific topics/projects are dependent upon ongoing projects in the lab during the exchange semester.

# POTENTIAL PROJECTS: COGNITIVE NEUROSCIENCE & PSYCHOLOGY

- Laboratory for Cognitive Neuroscience, Department of Neurology, University Medical Centre Ljubljana
  - Zvezdan Pirtošek, Blaž Koritnik, Jure Bon ...
  - Contact: [aslana@kobz.si](mailto:aslana@kobz.si)
  - Neurological and neuropsychiatric disorders, such as: dementia, Parkinson's disease, Tourette's Syndrome, depression, schizophrenia
  - Affective neuroscience
  - Specific topics/projects are dependent upon ongoing projects in the lab during the exchange semester.

# POTENTIAL PROJECTS: PHENOMENOLOGY

- Faculty of Education
  - Urban Kordeš, [urban.kordes@pef.uni-lj.si](mailto:urban.kordes@pef.uni-lj.si)
  - Project: Enaction of knowledge – 1<sup>st</sup> person perspective

# POTENTIAL PROJECTS: PHILOSOPHY

- Faculty of Arts, Department of philosophy
  - Olga Markič, [olga.markic@ff.uni-lj.si](mailto:olga.markic@ff.uni-lj.si)
  - Philosophy of mind and philosophy of cognitive science: time and consciousness, free will, emotions and cognition, reasoning, intercultural aspects of cognition, neuroethics.
- Faculty of Education
  - Toma Strle, [toma.strle@pef.uni-lj.si](mailto:toma.strle@pef.uni-lj.si)
  - Decision-making: Embodied approaches to decision-making, first person perspective on decision-making, metacognition and decision-making.

# POTENTIAL PROJECTS: PHILOSOPHY

- Faculty of Arts / Department of philosophy
  - Borut Trpin, [borut.trpin@gmail.com](mailto:borut.trpin@gmail.com)
    - Computer simulations in epistemology (belief updating, uncertainty and probabilistic reasoning)
  - Sebastjan Vörös, [sebastjan.voros@ff.uni-lj.si](mailto:sebastjan.voros@ff.uni-lj.si)
    - Contemplative traditions and cognitive science
    - Phenomenology and cognitive science

# POTENTIAL PROJECTS: NEUROLINGUISTICS

- Faculty of Arts, Department of comparative and general linguistics
  - Christina Manouilidou, [christina.manouilidou@ff.uni-lj.si](mailto:christina.manouilidou@ff.uni-lj.si)
  - Language processing in healthy and brain-damaged populations (e.g., what are the mechanisms of language processing; how do we recognize words; how do we process sentences; in what way is language processing compromised when the brain is affected, ...)

# POTENTIAL PROJECTS: COMPUTER SCIENCE, AI

- Artificial Intelligence Lab, Faculty of Computer and Information Science
  - Ivan Bratko, [ivan.bratko@fri.uni-lj.si](mailto:ivan.bratko@fri.uni-lj.si)
  - Human-robot communication: How can a robot explain what it is doing?

# OTHER POSSIBLE PROJECT SUPERVISORS

- Gregor Geršak: measuring psychophysiological data ...  
([gregor.gersak@fe.uni-lj.si](mailto:gregor.gersak@fe.uni-lj.si))
- Maja Bresjanac: Patophysiology ...  
([maja.bresjanac@mf.uni-lj.si](mailto:maja.bresjanac@mf.uni-lj.si))
- Anja Podlesek: psychometry, methodology, statistics ...  
([anja.podlesek@ff.uni-lj.si](mailto:anja.podlesek@ff.uni-lj.si))
- Janez Demšar: machine learning, data mining ... (Orange)  
([janez.demsar@fri.uni-lj.si](mailto:janez.demsar@fri.uni-lj.si))



# FURTHER INFO

[http://www.pef.uni-lj.si/kognitivna/  
meicogsciprogramme\\_mobility.html](http://www.pef.uni-lj.si/kognitivna/meicogsciprogramme_mobility.html)