



## Mobile Computing Research - Faculty of Computer and Information Science (FRI), University of Ljubljana, Slovenia

[Slovenia](#) is an attractive location reaching into the Alps and the Mediterranean, a European Union member state with a high quality of life and well preserved environment. The capital, [Ljubljana](#), is a charming middle size European city, the European Green Capital 2016, with a lively cultural and academic life. [University of Ljubljana](#) is the best national and a strong regional educational institution ranked among top 500 universities according to ARWU Shanghai, Times THES-QS and WEBOMETRICS rankings. [Faculty of Computer and Information Science](#) (FRI) employs 170 research, teaching and administrative staff and enrolls approximately 1300 undergraduate and graduate students. The Faculty research, funded by EU, national and industry grants, is **particularly strong in fields related to Artificial Intelligence**, an area traditionally researched by our Faculty since the 1970s. In 2014 the Faculty moved to newly constructed \$100 million premises in Ljubljana.

Mobile computing delivered an unprecedented rate of innovation in the last decade, having a profound effect on our society. Powerful computers that can fit our pockets (smartphones together with numerous other wearable and ubiquitous devices) help us navigate new environments, maintain our exercise routine, track our finances, meet up with social connections, and in general provide unique critical services unimaginable just a decade ago.

Mobile Computing research group at the Faculty of Computer and Information Science from the University of Ljubljana, Slovenia is pursuing the following research directions:

- Brining **efficient deep learning to mobile phones**, smartwatches, and microcontrollers;
- Developing **compilers and distributed systems** supporting energy-efficient approximate computing on mobile devices;
- **Predicting and modeling human behavior** (movement, social interactions, activities) through data coming collected via mobile sensing;

We are persistently publishing at top ranked journals and conferences, our work is supported by multiple national and international (EU) projects, and we have close contacts with Slovenian and international industry. A full list of our publications can be [found here](#).

### MSc Internship (3 months)

We offer to interested MSc students the possibility of a **(paid) internship of 3 months** during the Summer of 2022 to do research on the above topics (ideally this would represent their MSc thesis project).

#### Requirements:

- Enrolled in a Master's programme in Computer Science or a related field;
- Solid background in programming and machine learning/deep learning basics (previous experience with compilers is a plus);
- Strong work ethics, self-motivation, and ability to communicate (both written and oral) in English;
- Available for a 3 month stay in Ljubljana, Slovenia in the summer of 2022

#### Informal enquiries:

- Please take a look at [our recent publications](#), and send 1) a brief (up to one page) motivational letter, and 2) your CV to:
  - [veljko.pejovic@fri.uni-lj.si](mailto:veljko.pejovic@fri.uni-lj.si) (Dr. Veljko Pejović - Assistant Professor at UL FRI and Head of the Research group) and
  - [octavian.machidon@fri.uni-lj.si](mailto:octavian.machidon@fri.uni-lj.si) (Dr. Octavian Machidon - Researcher at UL FRI)



University of Ljubljana  
Faculty of Computer and  
Information Science

## PhD Studies

FRI PhD programme is fully taught in English and lasts for four years. The programme provides access to top scientific advisors, cutting-edge courses, brand new research facilities, and lets you choose from a range of research topics for your PhD thesis. **Our PhD graduates are highly employable**, with some continuing their career at global industry leaders, such as Google and [Facebook](#), at top academic positions (e.g. [as professors at Harvard](#)) others starting successful [companies on their own](#).

**We offer various options for financing the PhD studies** including: teaching assistantships, research assistantships, scholarships, as well as a mix of the above.

More info about the PhD programme can be found in the [brochure](#) and PhD studies [webpage](#). The deadline for applying for the school year 2022/2023 is in August 2022 (exact date TBD).

### Informal enquiries:

- If you are considering applying for the PhD studies at FRI in the area of mobile computing, mobile sensing, human-computer interaction, and similar fields, please take a look at [our recent publications](#), and send 1) a brief (up to two page) motivational letter with proposed research topic, and 2) your CV to:
  - [veljko.pejovic@fri.uni-lj.si](mailto:veljko.pejovic@fri.uni-lj.si) (Dr. Veljko Pejović - Assistant Professor at UL FRI and Head of the Research group) and
  - [octavian.machidon@fri.uni-lj.si](mailto:octavian.machidon@fri.uni-lj.si) (Dr. Octavian Machidon - Researcher at UL FRI)