3rd Cycle
Doctoral Programmes

FRI

CREATING THE FUTURE

University *of Ljubljana*
Faculty *of Computer and Information Science*

Earning a Doctorate is One of the Highest Honours

Computer and information science is one of the leading breakthrough areas with regard to shaping the economy, education, culture, administration and other disciplines. The marked rise of computer technology in developed countries dictates the need for highly qualified human resources which are capable of developing new computer and information technologies and implementing them in innovative environments. This study programme is designed to appeal to young people, especially those who plan on pursuing research and scientific work in computer science and informatics. The main focus of the doctoral study is on research, enabling students to receive training in both independent and team work, which encourages interdisciplinarity and also offers students the opportunity to cooperate with internationally recognised domestic and foreign experts. Special emphasis is devoted to combining scientific and professional areas, elective courses and an academic mentor programme so as to encourage students throughout the course of their studies.

The current Doctoral Programme in Computer and Information Science is the successor of two previous doctoral programmes, the first being Computer and Information Science and the other being Information Systems and Decision Making, both of which were launched at the University of Ljubljana in 1985 and 1998, respectively. The current programme has been revamped in order to make it more effective in terms of responding to student's needs. The selection of courses available has been expanded and there is a greater emphasis on each student's research work.

Doctoral Study Programme in Computer and Information Science

At the Faculty of Computer and Information Science we offer the Doctoral study Programme in Computer and Information Science. There is a wide range of courses available which offers students the opportunity to further their research work in a specific field. The aim of the programme is to provide computer science education to independent researchers, teachers and future leaders.

We also run an Interdisciplinary Doctoral Study Programme Biosciences in cooperation with several faculties (the Biotechnical Faculty, the Faculty of Electrical Engineering, the Faculty of Health Sciences and the Faculty of Mechanical Engineering).

- State of the art courses.
- Research-focused programme.
- Lectures are held in English.
- Modern facilities.

MATIC CANKAR,
PhD, researcher at XLAB

To become an expert in your field you need to be up to speed with the latest research and technology. Enrolling in PhD studies is an important step on the road towards gaining skills and staying on track with ongoing research, which is crucial in order to develop new ideas and contribute to international research projects. This knowledge enables me to tackle and solve the academic and industrial issues that arise if you are working for an IT company with a strong research group like XLAB.

Computer and Information Science

The Computer and Information Science doctoral programme is designed to further the student's knowledge of computer science and information technology, while also providing training in the soft skills required for research and development. The course is recommended for students who intend to pursue a career in academia and for students who intend to carry out demanding and innovative research and development in the industry.

Admission Requirements

Candidates that have completed the following can enrol in the thrid-cycle study programme.

(a) A second cycle master's programme;
(b) A vocational study programme regulated by EU directives or any other uniform master's study programme evaluated at 300 ECTS;
(c) a university study programme adopted before 11 June 2004;
(d) A professional study programme adopted before 11 June 2004 and study programmes leading to a specialisation. Prior to enrolment, candidates must complete study requirements in the scope of up to 60 ECTS from the second-cycle Computer and Information Science study programme. Their study requirements (a list of courses) will be determined by the Faculty's committee, in view of the candidate's prior education (completed programme).
(e) A study programme leading to a MSc degree. Candidates will be accorded credits up to 60 ECTS.

Given that they have completed an equivalent level of education abroad, **foreigners applying for doctoral programmes are subject to the same conditions as Slovenian citizens.** The equivalence of education with the purpose of continuation is determined in accordance with University of Ljubljana statutes.The procedure is led by the authorised person at the University of Ljubljana, with the content managed by the senate of the member faculty or the University of Ljubljana Senate.

Mentor

The selection of mentor for doctoral studies is vitally important. Make your selection in relation to your field of interest. Before your final selection, talk to the mentor, familiarise yourself with their laboratory, read through some of the mentor's most recent articles and consider whether the field they are involved in is appropriate and of interest to you.

The role of the mentor is to help you choose your field of research, to formulate the topic, select courses, to monitor your work and provide helpful advice. You will be in continuous contact with your mentor, you will collaborate with members of their laboratory and use the equipment it offers. The mentor will help you formulate your doctoral thesis so that your original contributions to computer and information science will be evident in it.

A list of potential mentors is posted on the website: fraca.si/mentors

Scheme of the Study Programme Computer and Information Science

The Computer and Information Science doctoral study programme comprises organised forms of study, research and the doctoral dissertation itself. It is a three-year programme performed entirely in English.

1st Year

The first study year comprises two elective courses, the Scientific Skills 1 course and Seminars 1 and 2. Candidates establish the focus of their research with the guidance of their mentors and start conducting the research.

2nd Year

In the second year, the candidates take part in two elective courses and Seminars 3 and 4, but primarily focus on research that is guided by their mentors and on which they work closely with their chosen laboratory. In order to progress to the third year, candidates must have an approved thesis topic which includes a written description and a defence.

3rd Year

The third year is reserved for the research and preparation of the doctoral thesis, which the candidate presents in Seminar 5. The candidate also learns how to write a project proposal in the Scientific Skills 2 course.

Mandatory Courses

The two mandatory courses are Scientific Skills 1 and Scientific Skills 2, which include topics such as paper writing, preparing good oral and poster presentations, copyright and patent laws, ethics in science, writing project proposals and the like.

Elective Courses

The candidate chooses four elective courses, two of which are selected from twelve elective courses available:
Information System Integration Methods • Advanced Algorithms for Search and Planning • Ensemble Methods for Data Analytics • Evolutionary Computation • Modern Statistics and Machine Learning • Deep Learning for Computer Vision • Network Measurements and Traffic Monitoring • Incremental Learning from Data Streams • Semirings and their Applications • Advanced Topics in Network Science • Predictive Analytics for Structured Data • Contemporary Approaches to Algorithm Design

The other two elective courses may be chosen from the above list or from other doctoral study programmes at the University of Ljubljana or other universities with a combined workload of at least 10 ECTS credits.

Seminars

Seminars are a compulsory part of the study programme and serve to ensure regular PhD student meetings and discussions about their research. There are five seminars in total: one in each of the first four semesters and one in the last semester of the study programme. The seminars are closely related to the students' research work; at these seminars the students present their work (e.g. papers, theses) to each other and to their mentors.

Research and the Doctoral Dissertation

The students' time is mostly devoted to carrying out their own scientific research with guidance from their mentors. The final result, the doctoral dissertation, should be an original contribution to science and must be written in accordance with the university's policy on doctoral dissertations.

Enrolment

Application for Enrolment

Candidates must submit their application for enrolment on the University of Ljubljana's doctoral study programmes online via the eVŠ online portal:

http://portal.evs.gov.si/prijava/?locale=en

More information is available on the University of Ljubljana web page:
www.uni-lj.si/study/doctoral

Application Enclosures

Applicants must enclose the following documents with the application form and send them to the faculty:

- A well-structured curriculum vitae (personal data, work experience, professional background, education, academic background, knowledge of languages, awards, prior experience in research and project work); bibliography (details of research undertaken/papers published in national/international journals and at conferences);
- A certified copy of their bachelor and master's (if applicable) degrees or the corresponding certificate of the institution that awarded the degree;
- A list of courses completed and the grades awarded for each, and a list of grades in the current studies. Please submit a form provided by the institution which granted the degree;
- Cover letter: in their cover letter candidates should set out why they wish to study at the Faculty of Computer and Information Science of the University of Ljubljana, what they would like to research during their doctoral studies and who they would like to have as their mentor.
- Two recommendation letters provided by two referees (academic or professional) with whom you have been associated in an academic or professional capacity.

The official deadline for applications is 2 June 2017

Information for Foreigners

Candidates who apply for enrolment with foreign education documents must submit a request for the recognition of foreign education so that it is possible to determine if they meet the enrolment criteria.

Please visit **fraca.si/phd-apply** for further information on how to apply to and enrol into the FRI doctoral programme. Enrolment will take place in September 2017.

Recognition of Education

A candidate who has finished his or her studies in a foreign country (not Slovenia) and would like to continue education in the Slovenian higher education institution is obliged to acquire a decision on the recognition of the foreign education, if they have not obtained one already. Higher education institutions are the competent bodies for the education recognition procedure.

The recognition procedure is a part of the enrolment procedure. The candidate submits the recognition application together with the study enrolment application (on the online eVŠ portal).

Required enclosures for applications:

- The original of the certificate/diploma, proving the completed or partially completed foreign education;
- A photocopy of the certificate/diploma referred to in the first indent;
- A certified Slovene translation of the certificate/diploma referred to in the first indent;
- A photocopy of evidence of the contents and duration of the education and the requirements fulfilled during the educational programme (diploma supplement, annual report cards, transcripts or others);
- A short chronological description of the entire education prepared and signed by the applicant or his or her legal guardian.

The official deadline for applications is 2 June 2017.

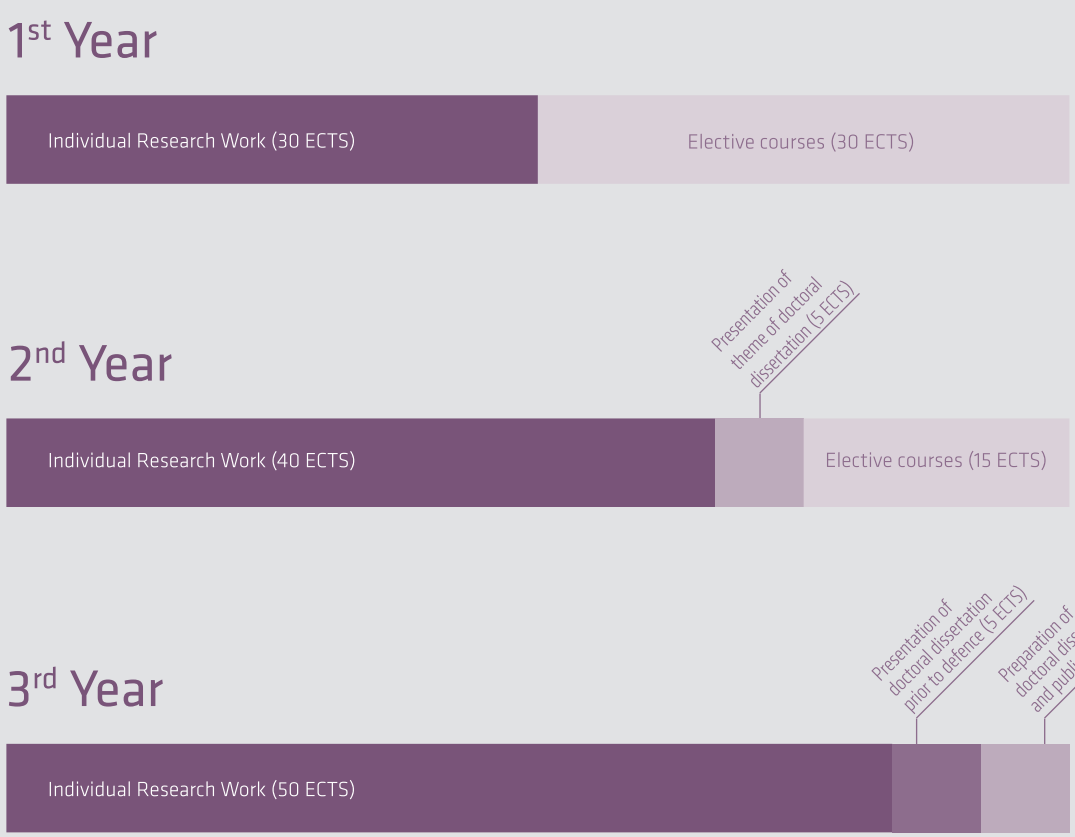
For more information please refer to the University of Ljubljana website:
https://www.uni-lj.si/study/useful_information/recognition_of_foreign_education/

EVA ČEH,
PhD, Scientist at Lek

The biopharmaceutical and biotech industries are experiencing an explosion in types and amount of available data. Data-driven knowledge discovery enables the understanding of complex behaviours and relationships in biological systems, which is at the heart of an informed decision-making process across the full biotech product lifecycle, from research and development to the manufacturing process and quality control. Coming from a life science oriented background, pursuing a doctoral degree in the interdisciplinary programme of Biosciences in the field of Bioinformatics exposed me to a wide range of new ideas and problem-solving approaches and provided me with the opportunity to meet and interact with some amazing computer scientists. The experiences and skills I gained have been a valuable resource in the complex, highly collaborative and multidisciplinary biopharmaceutical environment I work in today.

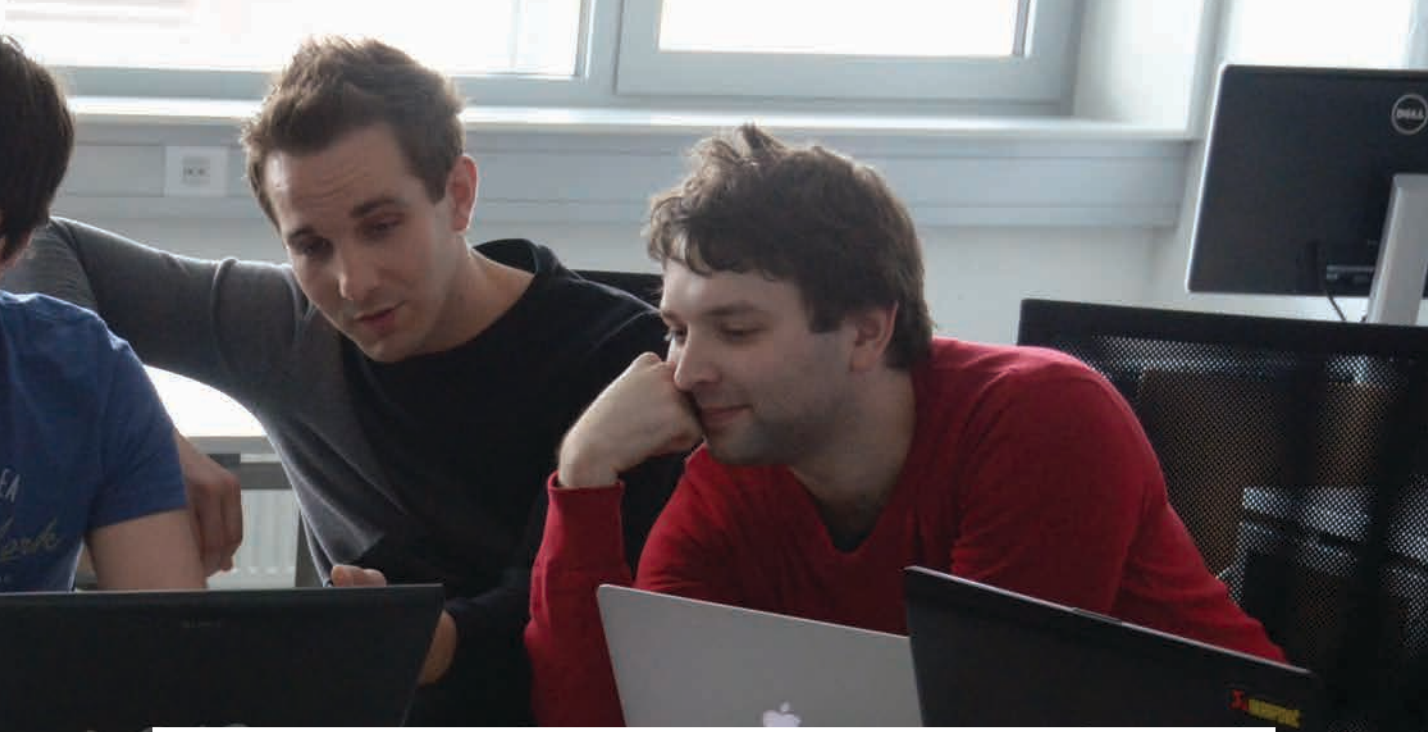
Interdisciplinary Doctoral Study Programme in Biosciences

In addition to our core Doctoral Programme Computer and Information Science we also offer the Interdisciplinary Doctoral Study Programme in Biosciences. The programme is provided together with the Biotechnical Faculty, the Faculty of Electrical Engineering, the Faculty of Health Sciences and the Faculty of Mechanical Engineering. The study programme consists of organised learning (lectures, practicals, presentations of themes of doctoral dissertations, etc.) amounting to 60 ECTS credits, while the remaining 120 ECTS credits are devoted to individual research work for doctoral dissertation. More information on: **http://bioznanosti.si/en**



MARINKA ŽITNIK, PhD

In my opinion PhD students should endeavour to pursue cutting-edge research in a topic they are curious and passionate about. With that in mind, the study involved may be challenging and hard work, but is enjoyable and most of all rewarding. One can expect to gain substantial insight into a specific area of computer science and possibly contribute to its development.



Scholarships and Research Positions

There are several scholarships available for doctoral students. The FRI offers positions for:

- Teaching assistants
- Junior researcher positions
- Researcher positions

The Slovene Human Resources Development and Scholarship Fund and other agencies offer several scholarships to foreign citizens for doctorate studies in Slovenia. Please carefully read the requirements published on website (**www.fri.uni-lj.si/en/scholarships**) and in the event of any doubt, contact our Student Affairs team at:
doctoral.studies@fri.uni-lj.si
In the 2017 there are 2 available scholarship programmes for Western Balkan and Palestine students.

Tuition Fees

In the 2016/2017 academic year the tuition fee for the Doctoral Study Programme Computer and Information Science was €3,450 per annum, the tuition fee for the Doctoral Study Programme Biosciences was €3,300 per annum. Tuition fees for 2017/2018 academic year will be announced in February 2017.

MARINKA ŽITNIK
PhD, Researcher at Stanford University

My research focuses on statistical modeling and analysis of multimodal data. I enjoy developing methods and emerging tools, and solving computational challenges in large-scale data systems.

It has become increasingly common to observe and measure technological, biological, and information systems at different levels of granularity and from different perspectives. During my Ph.D. study, I have developed new machine learning and data fusion methods to learn useful patterns from heterogeneous data systems.

My work has a wide range of applications of which I focus on those from biomedicine, health care, genomics, and systems biology. I use data analytic tools to automatically generate testable hypotheses from massive biological and clinical data. In several cases, predictions made by my computational methods have directly contributed to the new discoveries in the wet laboratory experiments. In one case, my methods predicted new bacterial resistance genes, which were afterwards validated by biologists at Baylor College of Medicine, USA. In another case, I used my data fusion methods to guide the experiments about a cancer-related enzyme family at Karolinska Institutet, Sweden.

I am now a postdoctoral scholar in the Computer Science Department at Stanford University. At Stanford, I work on new mathematical models to better understand the organization, structure and dynamics of multimodal networks. Together with collaborators in the U.S. and Europe, we test the models for exciting applications in the biomedical world.

LUKA ČEHOVIN ZAJC,
PhD, Teaching Assistant at UL FRI

The focus of my research work during my PhD studies was visual tracking. I have developed algorithms that are capable of predicting the position of deformable, non-rigid objects in real time video streams. Having to evaluate these algorithms, I have also worked on improving visual tracking evaluation methodology. My work has been published in several major computer vision conferences and journals and has been the basis for the methodology used in the VOT Challenge, an initiative that organizes competitions and workshops with the goal of advancing the field of visual tracking. Since my PhD I have been working on various projects related to computer vision, robotics, and human-computer interaction.

CIRIL BOHAK,
PhD, Teaching Assistant at UL FRI

My PhD thesis was in the field of music information retrieval, more specifically in the fields of music segmentation and music transcription. I addressed three problems related to audio recordings of folk music: (1) how to automatically segment audio recordings into melodically similar parts, (2) how to find a representative part of a music recording and (3) how to improve the transcription of a representative part of music recording using repetitions. The main challenge was coping with the specifics of folk music recordings, such as high level of background noise, singing with inaccurate pitch and timing, how to cope with interruptions in recordings and so on. In my PhD study I also addressed issues from other domains, such as human-computer interaction, scientific visualizations and e-learning. After finishing my PhD I shifted my focus to the field of Computer Graphics, where my goal is to contribute in the field of volumetric rendering and global illumination techniques used in real-time visualization of medical data. I am also addressing the user experience and user interaction aspects of such visualization applications.

DOMEN KOŠIR,
PhD, Senior Software Developer at Celtra Ltd.

I have worked as a developer in the online advertising industry and found myself wondering how the large volume of data could be used to make advertising more efficient. I enrolled in the PhD study at FRI as a researcher from the industry. In the following years I focused mainly on web-related data mining problems, like profiling web users, building recommendation systems, and analyzing advertising-related data. I have developed several new algorithms and published them in scientific journals.

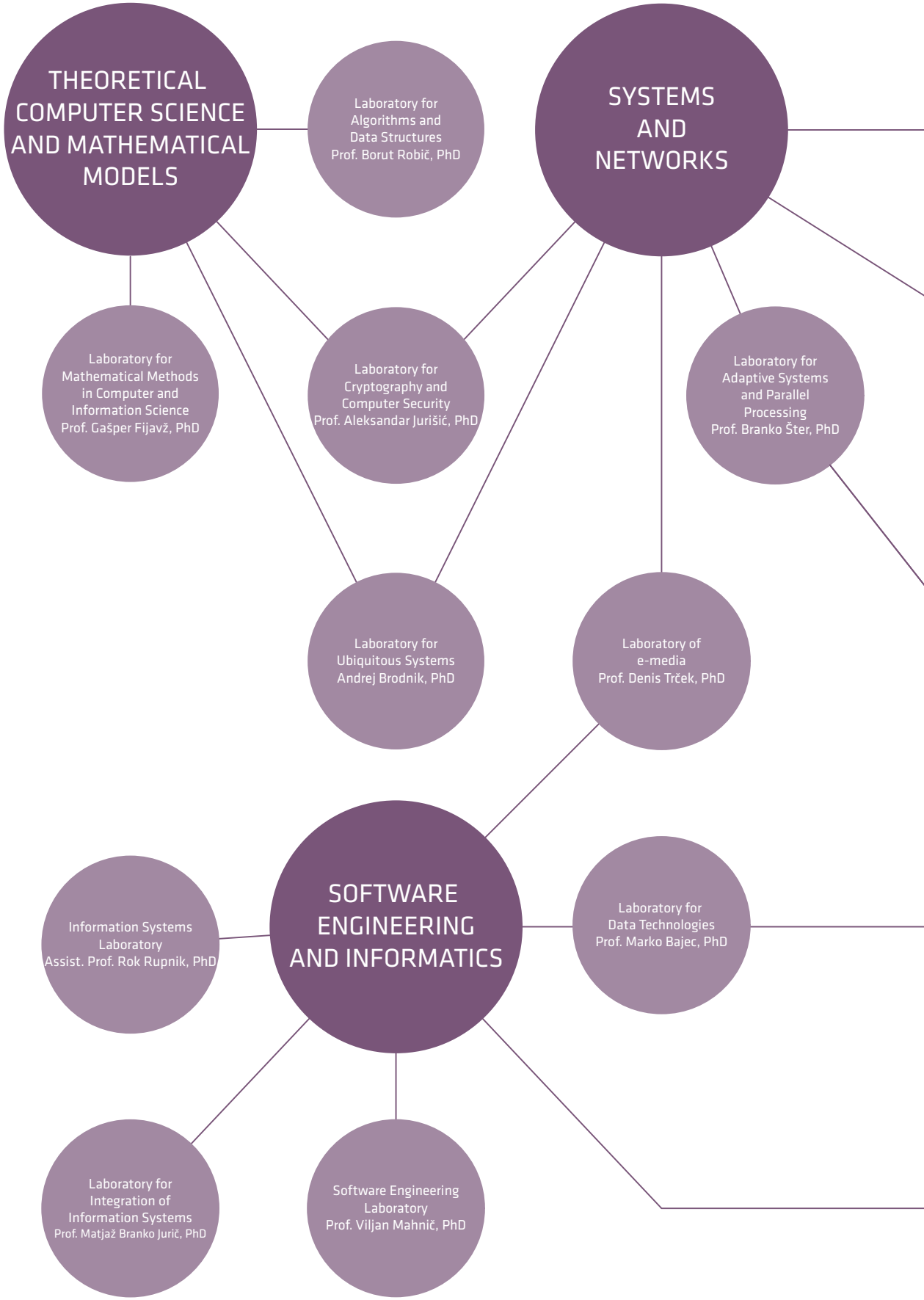
My continued work in the advertising industry enables me to use the newly acquired knowledge in everyday work. Knowledge brings new opportunities!

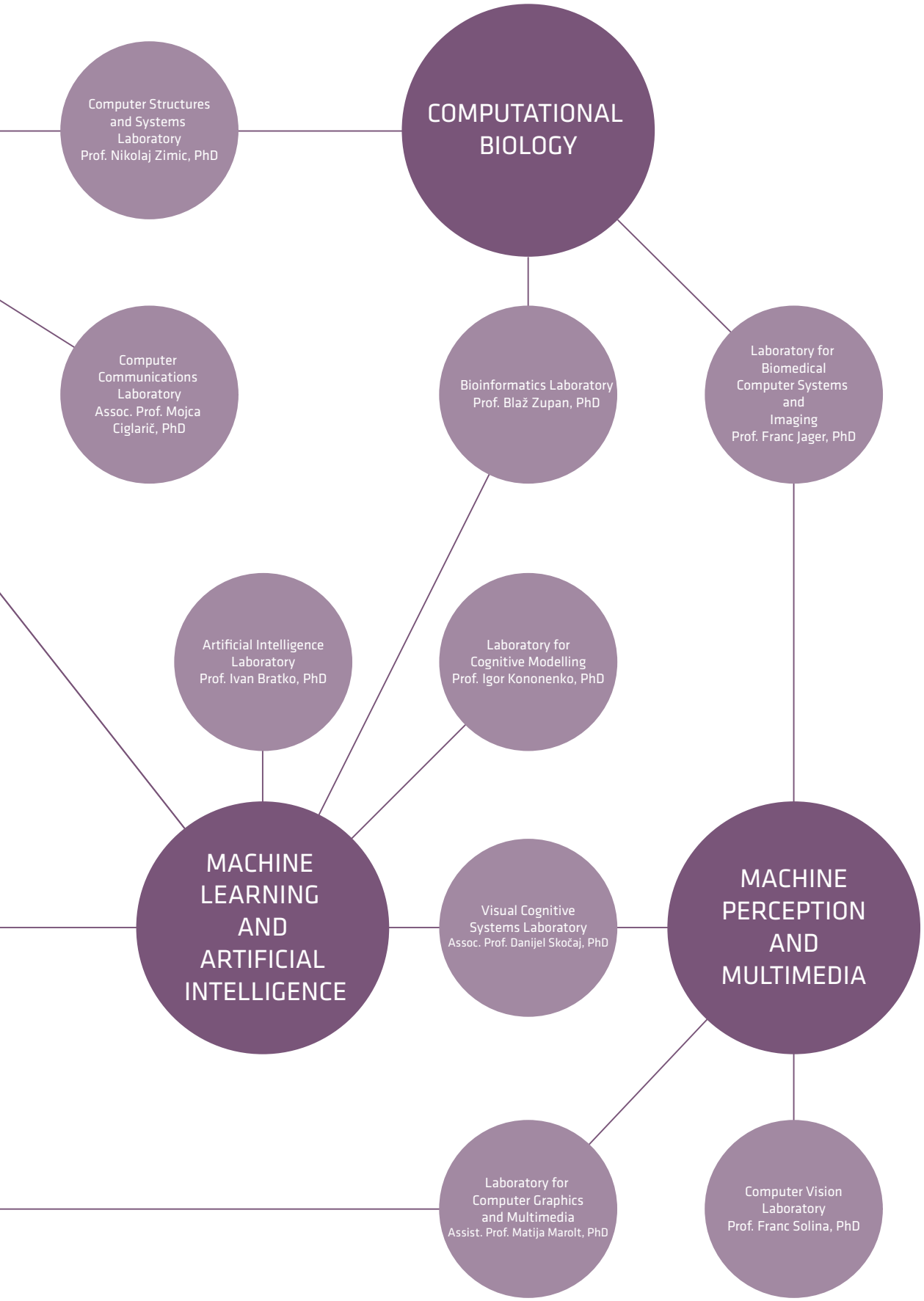
Research Work

The research work carried out in our 19 laboratories is diverse. The research is particularly intense in field of artificial intelligence and related disciplines, such as machine learning, data mining and computer vision, and applied to different domains from bioinformatics and cognitive modelling to intelligent robotics. Another important research area is data acquisition and management as well as integration of information systems. We are addressing various other research questions from different fields of computer and information science which can be seen through the keywords on the next two pages and the list of ongoing research projects. Doctoral students are actively involved in carrying out their research in collaboration with other researchers.

JURE BORDON, PhD student

The doctoral programme is a great way to delve deeper into the complexities of computer science. It also gives you the opportunity to broaden your understanding of computer science and provides you with the tools and the knowledge required to become a leading expert in your specific area of interest. Although the PhD title is traditionally associated with an academic career, all leading tech companies have their own research and development departments which are constantly on the lookout for researchers who want to apply their knowledge to areas outside academia.


THEORETICAL COMPUTER SCIENCE AND MATHEMATICAL MODELS
Laboratory for Algorithms and Data Structures
Prof. Borut Robič, PhD
SYSTEMS AND NETWORKS
Laboratory for Mathematical Methods in Computer and Information Science
Prof. Gašper Fijavž, PhD
Laboratory for Cryptography and Computer Security
Prof. Aleksandar Jurišić, PhD
Laboratory for Adaptive Systems and Parallel Processing
Prof. Branko Šter, PhD
Laboratory for Ubiquitous Systems
Andrej Brodnik, PhD
Laboratory of e-media
Prof. Denis Trček, PhD
SOFTWARE ENGINEERING AND INFORMATICS
Information Systems Laboratory
Assist. Prof. Rok Rupnik, PhD
Laboratory for Data Technologies
Prof. Marko Bajec, PhD
Laboratory for Integration of Information Systems
Prof. Matjaž Branko Jurič, PhD
Software Engineering Laboratory
Prof. Viljan Mahnič, PhD


COMPUTATIONAL BIOLOGY
Computer Structures and Systems Laboratory
Prof. Nikolaj Zimic, PhD
Computer Communications Laboratory
Assoc. Prof. Mojca Ciglarič, PhD
Bioinformatics Laboratory
Prof. Blaž Zupan, PhD
Laboratory for Biomedical Computer Systems and Imaging
Prof. Franc Jager, PhD
Artificial Intelligence Laboratory
Prof. Ivan Bratko, PhD
Laboratory for Cognitive Modelling
Prof. Igor Kononenko, PhD
MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE
Visual Cognitive Systems Laboratory
Assoc. Prof. Danijel Skočaj, PhD
MACHINE PERCEPTION AND MULTIMEDIA
Laboratory for Computer Graphics and Multimedia
Assist. Prof. Matija Marolt, PhD
Computer Vision Laboratory
Prof. Franc Solina, PhD

Research Projects

Research work at the Faculty is carried out in 19 different laboratories. It is made through various projects funded by the European Commission, the Slovenian Research Agency, industrial partners and other funding agencies. Doctoral students participate in these projects, gaining international experience as a result.

Our laboratories are partners on several research projects funded by the European Commission:

FLEXICIENCY – energy services demonstrations of demand response, flexibility and energy efficiency based on metering data (prof. M. B. Jurič, PhD)

SWITCH – Software workbench for interactive, time-critical and highly self-adaptive cloud applications (prof. M. Bajec, PhD)

CREA – Network of summer academies for improving entrepreneurship in innovative sectors (A. Brodnik, PhD)

AGROIT – Increasing farming efficiency throught an AgroIT platform based on open standards (assist. prof. D. Vavpotič PhD)

SALUS – Security and interoperability in next generation PPDR communication infrastructures (prof. D. Trček, PhD)

AAPELE - Algorithms, Architectures and Platforms for Enhanced Living Environments (assoc. prof. P. Bulič, PhD)

EuNetAir - European Network on New Sensing Technologies for Air-Pollution Control and Environmental Sustainability (prof. B. Šter, PhD)

MONROE/RICERCANDO - Rapid Interpretation and Cross-Experiment Root-Cause Analysis in Network Data with Orange Environmental Sustainability (assoc. prof. F. Ricciato, PhD)

EKOSMART - Smart Specialisation: Smart cities and communities (prof. M. Bajec, PhD)

BioPharm.si - Smart Specialisation: Health – medicine (prof. B. Zupan, PhD)

GOSTOP - Smart Specialisation: Factories of the Future (assoc. prof. D. Skočaj, PhD)

Current Basic research and application projects funded by the Slovenian Research Agency:

Metabolic and inborn factors of reproductive health, birth • Artificial intelligence and intelligent systems • Computer Vision • Synergy of the technological systems and processes • Pervasive Computing • Parallel and distributed systems • Conquering the Curse of Dimensionality by Using Background Knowledge • Posttranscriptional regulatory networks in neurodegenerative diseases • Model for Domain-Specific Trend Prediction based on Semantic Enrichment of Unstructured Patterns • Epidemiology and Biodiversity Studies of Plant Pathogens • Maintenance of large databases based on visual information using incremental learning • Designed cellular logic • Automatic annotation of medical video sequences • Computer based modelling in bioinformatics for gene based cancer classification focused on reliability and machine learning • Development of new e-learning models for game-based learning using mobile technologies • Supervised and unsupervised learning from imbalanced datasets for assistance in movement of persons with low vision Trust Management and Reputation Systems • Data Fusion in Systems Biology of a Social Amoeba Dictyostelium

Additionally to these projects faculty is participating on more than 30 projects funded by different institutions and industry partners including Akrapovič, CBSR, Celtra, CHS, Datalab, FMC, Guru Namig, HTTPOOL, Informatika, Iskratel, Iskra Impuls, IBM Slovenija, Kopa, Mega M, Optilab, Prosplet, PB Slovenije, RC IRC Celje, Stacklabs, SRC, SŽ, TMG-BMC, UCS, XLAB and others.

More information about our research can be found on our web page: **fraca.si/survey**

The faculty cooperates with partners from industry and universities abroad. Some of our most important European projects are described below.

SWITCH

The SWITCH project addresses the urgent industrial need for developing and executing time critical applications in clouds, such as disaster warnings, collaborative communications or live broadcasting. The very high network, computing service, optimised software architecture and protocol requirements often result in infrastructure lock-in. Existing technologies incur enormous development costs and make it difficult to fully utilise the virtualised programmable services. SWITCH introduces an application-infrastructure co-programming and control model, in which QoS/QoE and cloud environment features can all be included in the complete application lifecycle.

MONROE/RICERCANDO

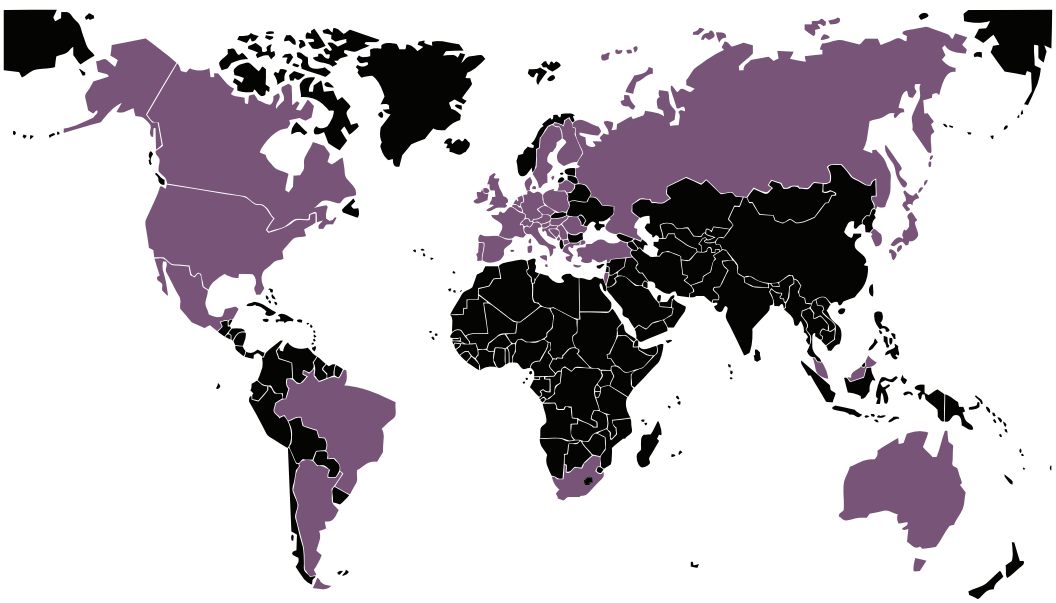
The immense popularity of mobile devices like smartphones and tablets, combined with the availability of high-capacity 3G and 4G mobile networks, has radically changed the way most people access and use the Internet. Given the importance of Mobile broadband (MBB) networks, there is a strong need for objective information about their performance. Such information is very valuable for many parties including operators, regulators and policy makers, consumers and society at large, businesses whose services depend on MBB networks, researchers and innovators. The EU project MONROE (Measuring Mobile Broadband Networks in Europe) will design and operate the first European transnational open platform for independent, multi-homed, large-scale monitoring and assessment of performance of MBB networks. The goal of the RICERCANDO sub-project is to develop an advanced toolbox for mining MONROE data to support integrative exploration, visualization and interpretation of data and meta-data across multiple experiments.

FLEXICIENCY

Major DSOs are working together with market players and other stakeholders within the Horizon 2020 – LCE-07-2014 project FLEXICIENCY to develop a technical model in order to achieve a vision of data exchange based on the meter data accessibility provided by DSOs which is close to real time. Standardised interfaces will be developed to integrate the platforms of different players, before becoming plug and plays at the EU level and allowing for the replicability of novel energy services. A virtual ICT environment will catalyse the interactions between relevant stakeholders and encourage cross-country and cross-player access to innovative energy services based on metering data.

International Collaborations

Great diversity and interdisciplinary approaches distinguish the research work of our faculty members. Our research addresses a number of research questions from a wide range of fields concerning computer and information science. Research groups at the faculty are successful in conducting a wide range of national and international projects and programmes. International studies are conducted in collaboration with world-class universities and research centres in Europe, the US and elsewhere around the world. In collaboration with the private sector, which has considered the Faculty an important partner for development, the Faculty conducts numerous applicative studies in computer science. The findings and results of research staff at the Faculty are regularly published in recognised international scientific publications, and its research staff – as world-class experts – participate in professional conferences and actively collaborate in international professional associations in all aspects of computer and information science.



Map of the countries we collaborate with:
Argentina • Australia • Austria • Belgium • Bosnia and Herzegovina • Brasil • Canada • Croatia • Czech Republic • Denmark • Finland • France • Germany • Greece • Hungary • Ireland • Israel • Italy • Japan • Kosovo • Lithuania • Macedonia • Malaysia • Mexico • Montenegro • Netherlands • Poland • Portugal • Romania • Russia • Serbia • Slovenia • Spain • South Korea • Sweden • Switzerland • Turkey • United Kingdom • United States of America

Employment Opportunities

Employment opportunities for Computer and Information Science doctoral graduates are very broad. Primarily, the programme trains doctors of science who become high-level professionals working in enterprises and social institutions that develop computer or IT solutions. These institutions also use solutions for innovation purposes to gain competitive advantages or to improve the quality of business and work. Typical roles are leadership and R&D. Due to a great need for such professionals at home and around the world, we estimate that the employability of doctoral students who complete the programme is high. The fact that there is a high demand for such qualified personnel is an additional motivation for future students to enrol in this study programme. This is reinforced by the experiences of students who have completed their doctorates, given the fact that they found jobs without any difficulty.

MIHA ŠTAJDOHAR,
PhD, CTO and co-founder of Genialis – friendly bioinformatics

The fruits of research are typically left hanging on the prototype "branch". The objective of research is to come up with ideas, publish them and then move on to the next big thing. As an engineer at heart, I was irritated to see all that potential just hanging in my lab's GitHub branches. I always wanted to build products and I saw the opportunity to do something great. We founded a spin-off company, licensed the concepts invented at the FRI and partnered up with Biolab, which continues to advise us. I am delighted that our research ideas have now helped create a product that helps many life scientists learn from their data. We continue to grow and search for talents to join us in our endeavours.

ŠTEFAN FURLAN,
PhD, Executive Director at Optilab d.o.o.

The doctoral programme has deepened my analytical and critical thinking. The ability to think analytically is vital when it comes to solving everything from small everyday problems to the most complex strategic business solutions. On the doctoral programme I was given the opportunity to work in very interesting areas of scientific research and, for me, this was also a real test of my perseverance. I also broadened my connections in Slovenia and abroad, meeting several interesting and highly competent people with whom I am currently working and will continue to do so in the future.

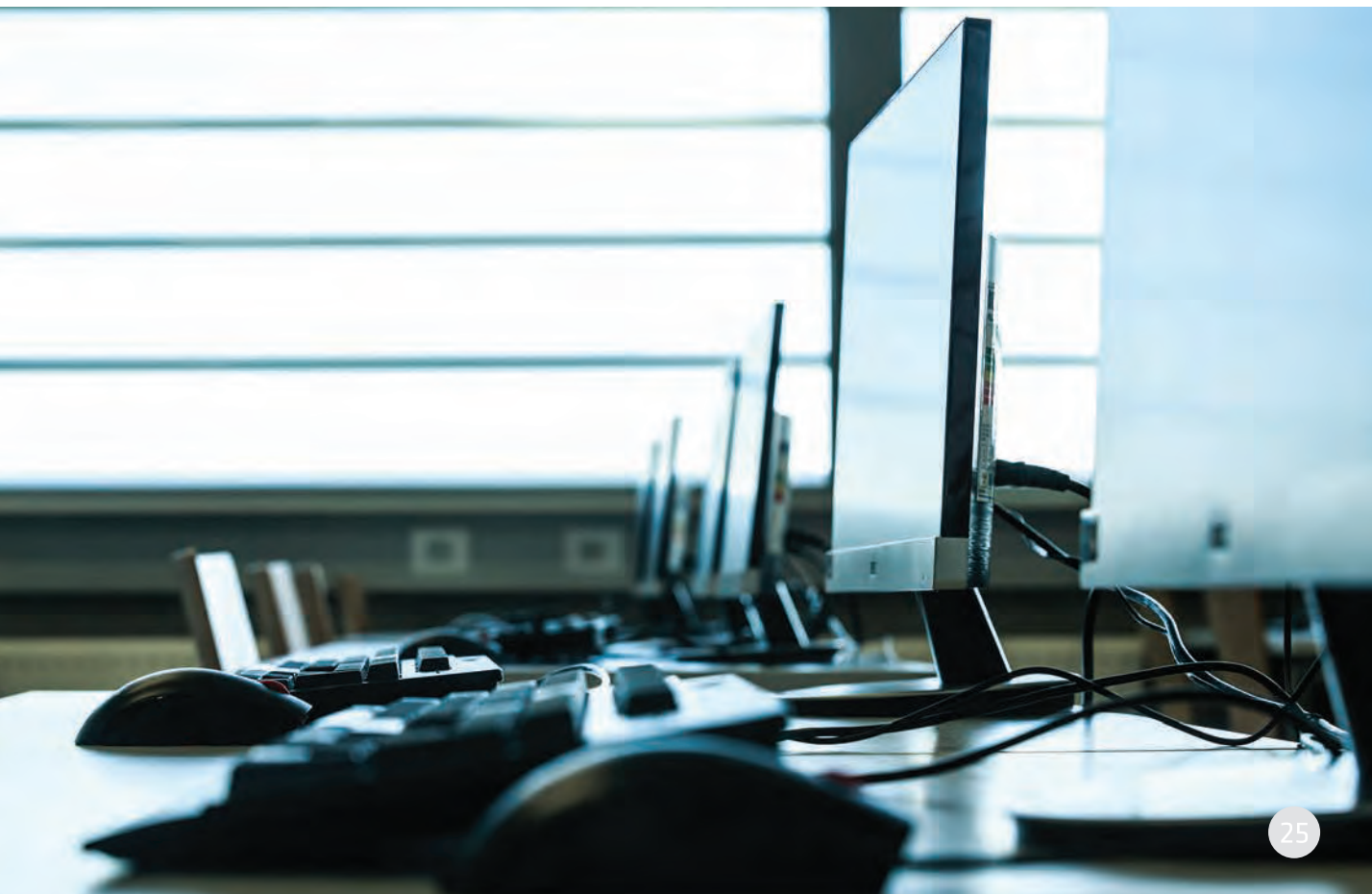
Modern Facilities

In 2014, the Faculty moved to a new building in Brdo pri Ljubljani. This followed a several-year construction project of new buildings for the Faculty of Chemistry and Chemical Science and the Faculty of Computer and Information Science. This is the largest investment in the history of the University of Ljubljana and the largest project in Slovenia to be co-financed by European funds.

The new construction comprises three buildings, with the Faculties sharing the central one. This contains a large lecture hall with 300 seats, a large modern library with a reading room, a copy shop, and a restaurant.

The Faculty of Computer and Information Science's main building has a lecture hall with 200 seats, 8 smaller lecture halls, 12 computer rooms, over 20 research labs, a faculty lounge, and offices for support staff.

By moving the whole faculty under one roof, the academic community has been strengthened and invigorated, as there is more interpersonal communication and collaboration. In the new open and well lit design, a lot of space is reserved for informal socialisation and exchanging ideas, while the modern Faculty hosts external lecturers, conferences, workshops, and summer schools, which enrich the educational and research processes with new ideas, experiences, and best practices.



University of Ljubljana

The University of Ljubljana is an institution with a very rich tradition. It was established in 1919 on the foundations of a long-established pedagogical tradition. It is a very large university, with around 50,000 undergraduate and postgraduate students, and over 300 undergraduate and postgraduate study programmes. It employs approximately 6,000 higher education teachers, researchers, assistants and administrative staff in its 23 faculties and 3 arts academies.

Ljubljana Green Capital 2016

The university is based in Ljubljana, the capital of Slovenia, a relatively large central European city with just over 300,000 inhabitants. Students account for more than one-seventh of the population, giving the city a youthful and lively character The numerous cultural events held throughout the year are characterised by a richness of tradition as well as modern creativity. In general, a visitor's first impression of Ljubljana is that it is an exceptionally young and picturesque city.

Useful Information

Residence Permits for the Republic of Slovenia

EU citizens do not need a permit (visa) to enter the Republic of Slovenia. They may enter with a valid identity card or valid passport regardless of the purpose of their stay. For all stays less than three months, EU citizens are not required to register their place of residence; they only need to register at their nearest police station within three days of crossing the Slovenian border. If they would like to extend their stay beyond three months, they are obliged to register their place of residence at their local administrative unit.

Third country nationals coming for study, specialisation, professional improvement or practical training purposes will be issued visas or temporary residence permits. Third country nationals who do not need visas because they are citizens of a country with which Slovenia does not have a visa arrangement may enter with a valid passport and remain in Slovenia for 90 days within a six-month period.

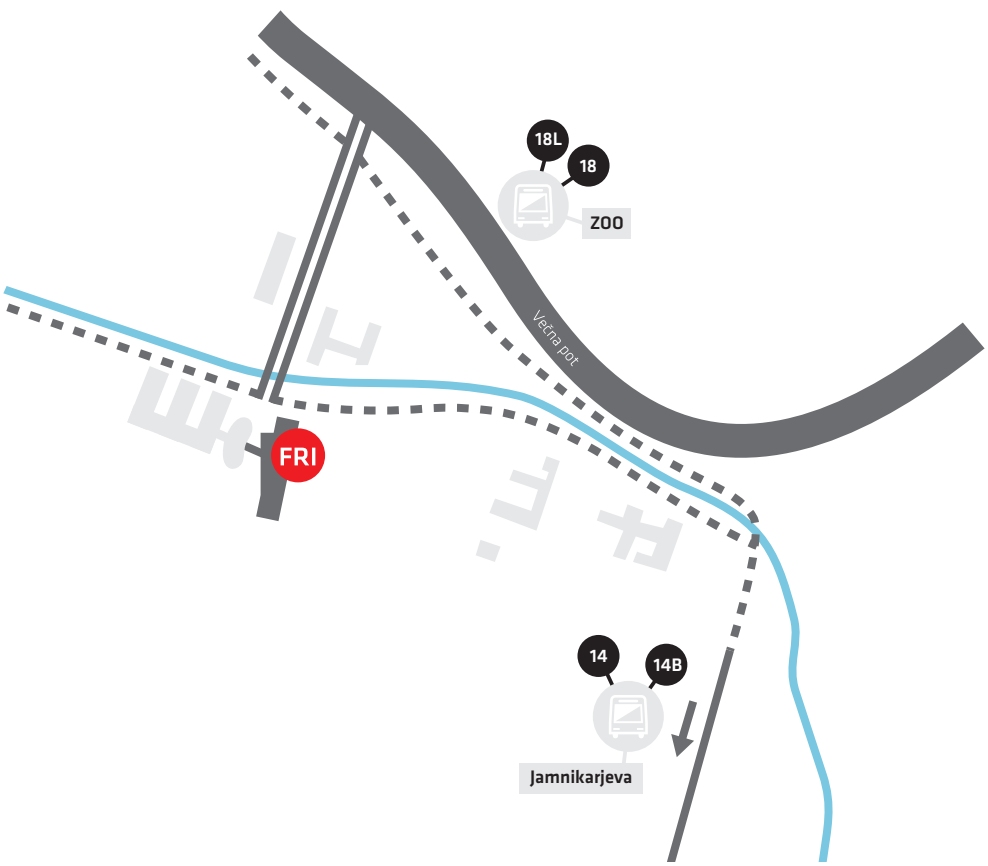
Student Life in Ljubljana

Information on renting rooms or flats can be founded at **www.mkvadrat.si**. Slovenes without Slovene citizenship who have been awarded a Republic of Slovenia scholarship (the Slovene Human Resources and Scholarship Fund) can apply for a room in one of the student halls of residence (**http://www.stud-dom-lj.si**). The monthly price for private accomodation is €150-250 per room and €80-160 per room in dormitory. During their stay in Ljubljana, students are entitled to discounted prices of food (the average is €3.50) in the majority of Ljubljana's restaurants. The most common way of getting around the city is by bus. A monthly student ticket costs €20.

The average cost od living in Ljubljana is approximately €300-500 per month.

The Faculty of Computer and Information Science is located in a pleasant environment behind Rožnik hill. The area has been evolving into a hub that will connect students, researchers and other technology and natural science personnel.

It is located in the South-West of Ljubljana. To reach the Faculty from the center take bus lines 18/18L or 14/14B.



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