

# Annual Report 2018



Charles University











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# Rector's Introduction



# Dear colleagues and friends of Charles University,

The year 2018 was marked by the number eight in the Czech Republic. This number plays a very special role in the modern history of the country: 1918 – formation of the republic and our modern statehood, the tragic “Munich” year 1938, the communist coup of 1948, the year of hope and humiliation 1968, or 1988 when freedom and democracy began to return to our lives. The eight year 2018 was extraordinary not only for the Czech Republic, but also for Charles University. It commemorated 670 years since the university's foundation by the Roman Emperor and Czech King Charles IV in 1348. Moreover, we have gained possession of two rare documents closely related to the founding of the university and which are of great symbolic importance to us.

For this very reason, this annual report is also centred around the number eight. In addition to its traditional, obligatory parts, we would like to present you with eight important topics – eight stories that took place at Charles University in 2018. These stories are told by people from the university, our scientists, teachers, and other employees who have been working on tasks with their teams and colleagues, achieved success, helped significantly to develop CU, or promoted its reputation in the Czech Republic and abroad.

### 2018 in Eight Stories

The first one is historical. The acquisition, or rather purchase, of two documents from private owners which are important for the history of the university and which hold great symbolic importance. The first document is Pope Clement VI's deed of 26 January 1347, which contains the Pope's consent to the establishment of a university

in Prague, and the other a notarial instrument initiated by the Prague Chapter of 30 June of the same year with an insert (copy) of the papal deed and a list of witnesses confirming the authenticity of the copy. The significance of these documents for Charles University is all the greater since the original copy of the papal deed previously held by the university was likely destroyed during World War II, similar to other valuable documents.

The second story tells about a new dimension of cooperation between top European universities as part of the internationalization of Charles University – the 4EU+ project. It is a truly revolutionary idea that was announced at the Göteborg Summit by the leading figures and prime ministers of EU Member States in November 2017. In March 2018, Charles University formed a consortium with Universität Heidelberg, Sorbonne Université, and Uniwersytet Warszawski, which were joined later in the year by Università degli Studi di Milano and Københavns Universitet. I believe that the cooperation with such important universities will be an opportunity for CU to further develop international cooperation and to improve our scientific, creative, and educational activities, which is very closely related to the process of the university's internationalization.

The third story is devoted to one of the most important activities we have been cultivating at Charles University – excellent science. The story concerns a European Research Council (ERC) grant implemented at the Faculty of Mathematics and Physics of Charles University. It is the story of Ondřej Pejcha's project to “understand the critical phase in the development of two orbiting stars that suddenly start to interact so strongly that one or both lose their envelope and highly approximate”, which speaks for all successful ERC investigators

and other excellent scientists who succeeded among the strong domestic and international competition, not only in 2018. It is through the acquisition of such important grants and the formation of new successful scientific groups that our Alma Mater will belong to the best universities in Europe.

The fourth story is the story of the founding of Charles University Innovations Prague s.r.o., which will function as an imaginary “bridge between science and business”. Charles University is the very first university in the Czech Republic to establish an independent subsidiary for putting scientific knowledge into practice, thereby pushing the boundaries of the practical use and funding of science, research, and innovation. It is an important and unique step that should contribute to the most effective transfer of scientific knowledge and technology from the university to commercial partners, and thus benefit the Czech public and Czech society as a whole.

The fifth story revolves around teaching. As any other university, Charles University is also both a scientific and educational institution. The Centre for Teaching Competences Paedagogium is an important platform engaged in various activities aimed at promoting didactic competences and sharing pedagogical skills, experience, and examples of good practice. As Michal Zvírotsky aptly wrote: “teaching (learning) understanding in the broadest sense of the word – that is the essence of a teacher’s activities, whether they work in a remote village classroom or at a renowned university. This is why Charles University’s Paedagogium has existed since 2018”.

The sixth story is about the promotion of the university among secondary school students and the general public. One of the main activities Charles University has pursued in this respect is its regular participation in the Gaudeamus post-secondary school and lifelong learning education fair. In 2018, after five years, we decided to change, or rather modernize and make more attractive, our exposition for potential students at CU. The reaction to our presentation, which was based on our “students to students” long-term strategy where students and colleagues from all the 17 faculties and the Rectorate participate, was very satisfying. We believe that we managed to attract more talented secondary students to our Alma Mater from all over the country.

As I have already stated at the beginning of the introduction, the “eight” year 2018 was important for both our country and Charles University. The seventh story is, therefore, about an exhibition entitled The University and the Republic: 100 Years – 100 Items – 100 Stories, which presented the last hundred years of Prague’s oldest university by one hundred items and stories that related to them, one for each year of their existence. I am very pleased that the general public and the

academic community could explore a hundred years of the university and the interconnection of its destiny with the turbulent fate of the country – Czechoslovakia and the Czech Republic – in the 20<sup>th</sup> and 21<sup>st</sup> centuries through this unique project.

The last, eighth story, told by the Chairman of the Academic Senate of Charles University, doc. PhDr. Tomáš Nigrin, Ph.D., is very personal to me. It is the inauguration of the Rector of Charles University. It is one of the most important university gatherings and one of the most significant university ceremonies that follows “ancient rituals and contains many symbolic legacies”. It was a great honour and a great commitment to accept the inaugural items (the ring, sealer, and key) and take an oath to the academic community as the Chairman of the Academic Senate for the second time. I vow to do everything in my power to carry out the ideas of those who have given me confidence with honour.

These eight stories speak abundantly about the life of the university in 2018. But it certainly does not speak about all our activities and achievements in this year. Therefore, I would like to mention at least briefly those not included in the eight stories.

## 230 New Study Programmes

As regards study, there are now two types of study programmes/fields accredited at the university following the amendment of the Universities Act. One type is study programmes and fields accredited by the Accreditation Commission, and the other includes programmes approved by the Internal Evaluation Board under the powers resulting from our institutional accreditation. In total, there are 611 study programmes/fields of the first type (204 Bachelor, 8 Master, 255 post-Bachelor, and 144 doctoral). In addition, the Internal Evaluation Board approved 230 new study programmes in 2018 (71 Bachelor, 6 Master, 66 post-Bachelor, and 87 doctoral). (See table 4 Number of Study Programmes and Fields of Study Offered by Type of Study) This provides a wide range of programmes and fields of study for students to choose from.

It is certainly one of the reasons why the number of Czech students has again not declined dramatically at Charles University in 2018 and why the number of applicants from abroad has continued to rise, which is also thanks to our own promotional activities and the award-winning Study in Prague project. (See tables 6 Total Number of Students by Faculty, 7 Total Number of Students by Country and Region) In line with our vision of a modern open university, we implemented in 2018 a number of specific scholarship programmes and made every effort to create the best possible conditions for students with special needs and people with disabilities in general; we

## Rector's Introduction

also cared for our students abroad through crisis communication.

By obtaining institutional accreditation, we were also given the opportunity to significantly streamline the processes associated with the recognition of the previous education of applicants in the admission procedure. This applies to both secondary education (for Bachelor and long Master study programmes) and university education (for post-Bachelor and doctoral programmes). Since 2018, students applying to CU are thus no longer required to deal with “general recognitions” at regional offices but can apply for recognition of their previous education directly as part of their admission procedure. With this step, we have not only made the recognition process more efficient, but also made it easier for foreign applicants to join our study programmes. (See table 5 Study Programmes and Fields of Study Accredited in a Foreign Language)

Charles University is one of the most successful universities in the world (See table 15 Standing of CU in Selected International Rankings in 2018), and our graduates are leading experts, scientists, innovators, and businessmen. Therefore, it is only logical that CU has supported and co-organized the national project Pikes of Czech Business (later renamed to Diamonds of Czech Business); collaboration between the university and local businessmen and companies is one of the important ways to strengthen the link between the university and the commercial sphere. In addition to CU, the project guarantors are the Czech Technical University in Prague and the Czech Chamber of Commerce. An integral part of the project is also meetings in individual regions of the Czech Republic, which aim to connect personalities from business, academia, culture, science, and sports.

The year 2018 was also successful for the CU Alumni Club with a total of 1,900 members at the end of the year. The members could attend educational lectures and seminars, traditional social events for graduates, such as the Graduates Festival, including Golden Graduations, the Garden Party, Advent at CU, or the St Stephen's Meeting, this time held at the Strahov Monastery. In December, there was a meeting of major graduates with the rector. Members of the CU Alumni Club were also excited about the benefits programme.

### Three New ERC Grants

In the area of scientific activities, the university continued the PROGRES programme, the third year of the PRIMUS and Donatio Universitatis Carolinae programmes, the UNCE project, and the activities of the CU Grant Agency as part of its complex system of supporting science and research. The university also boasts two new ERC grants: two scientists – Matyáš Fendrych from

the Faculty of Science and the above-mentioned Ondřej Pejcha from the Faculty of Mathematics and Physics – received the prestigious scientific awards of the European Research Council – ERC Starting Grant. A third holder of the ERC grant in 2018 became the world-renowned mathematician Jaroslav Nešetřil from the Faculty of Mathematics and Physics of Charles University, who received the grant in order to explore the mathematical theory of dynamic networks, which affect all areas of science and technology in the world today. A great success was also achieved by Egyptologists from the Faculty of Arts led by Miroslav Bárta, who discovered a unique burial complex of the royal secretary and priest Kaires in the pyramid field in Abusir.

Individual faculties and departments of Charles University were again involved in grants and projects of research, development, and innovation supported by targeted financial support under programmes of the largest domestic providers – the Grant Agency and Technology Agency of the Czech Republic (GA CR and TA CR) as well as programmes of targeted support by individual ministries and regions of the Czech Republic. In 2018, the total amount of targeted support received by Charles University for research, development, and innovation from the GA CR, TA CR, ministries (except the Ministry of Education, Youth and Sports), and regions of the Czech Republic amounted to CZK 1,078,370,000. (See table 13 Funding of Research and Development /Excluding Funds for EU Operational Programmes/)

In 2018, the university put into practice a new tool for improving the conditions in doctoral studies – coordinating boards of doctoral study programmes. These are inter-faculty, field-based platforms of study programme and field guarantors established for providing information, exchanging good practice, and receiving feedback on the university management. Currently, CU has 10 such coordinating boards composed of more than 200 implemented doctoral study programmes and fields of study.

In 2018, the university and the Czech Academy of Sciences concluded a framework memorandum of cooperation, and both of these prestigious institutions signed an agreement on doctoral study programmes. Thus, the Academy of Sciences has further deepened the cooperation with the university sphere, which is prescribed to scientific institutions under the amended Higher Education Act. By the end of 2018, a total of nine doctoral study programmes had been approved to be implemented in cooperation with both institutions. CU also further developed a specific type of doctoral study called Cotutelle, where the PhD dissertations are conducted under dual supervision – at CU and a foreign university.

## Third Role Of The University

Charles University also made every effort to be as active as possible in fulfilling its third role. In addition to the above foundation of Charles University Innovations Prague s.r.o. (CUIP), which complements the activities of the Centre for Knowledge and Technology Transfer (CPPT) (See table 14 Transfer of Knowledge and Results of Research in Practice), the university continued to successfully reach sponsors and partners who helped organize major events through which CU addressed the academic and general public. In 2018, this included primarily projects to commemorate milestones in the history of the university itself and the country (such as the 670<sup>th</sup> anniversary of the foundation of the university or the 100<sup>th</sup> anniversary of the foundation of the Czechoslovak Republic).

In 2018, the university also launched preparations for a university project with a nationwide outreach titled *Česko! A jak dál? (Czechia! And what next?)*, a discussion platform aimed to define key society-wide issues, problems, and challenges. The public debates, which are scheduled to last until 2020, will be attended by renowned CU scientists and experts, as well as personalities from the professional public and politics. In the period 2018/2019, the university has also become the main partner of the Best Athlete of the Year sports awards, which aims to acknowledge athletes and best athletic achievements in the regions and districts of the Czech Republic.

At the end of 2018, there was a partial modernization of the layout of the printed magazine Forum, which will continue in 2019. The magazine has received very positive acclamations both from members of the academic community of Charles University and outside, not only for its graphic design, but also for its interesting content. In 2018, the Forum had four issues in Czech and two issues in English; two regular issues were supplemented with two special issues in both languages – the spring one focused on the 670<sup>th</sup> anniversary of Charles University and the autumn issue commemorated the 100<sup>th</sup> anniversary of the foundation of the Czechoslovak Republic.

## Internationalization Strategy 2018–2021

In 2018, the Rector's collegium approved the Internationalization Strategy for 2018–2021, which stresses the need to systematically create conditions for increasing the share of foreign students and academics at CU. (See tables 11 Mobility of Students, 9 Mobility of Academic and Research Staff, 10 Mobility of Other Non-Academic and Non-Research Staff.) The strategy also emphasizes the strengthening of the university's position

in European and international research. (See table 12 Strategic Partnerships and Groups) The importance of the 4EU+ project has already been mentioned in the first part of the introduction. Furthermore, CU has concluded 14 new memoranda or agreements, with, for example, Concordia University in Canada, the University of California in San Diego, the Chinese universities East China Normal University and Guangdong University of Foreign Studies, the Korean universities Dankook University, Korea University, and Kyung Hee University; CU concluded an agreement on cooperation in doctoral studies with Macquarie University, etc. In addition, CU has successfully participated in the new doctoral Europaeum Scholars Programme in collaboration with the University of Oxford, Universiteit Leiden, and the Graduate Institute of International and Development Studies, Geneva. CU thus strengthened its position as a premier among Czech universities in this field. (See table 8 International University Agreements on Direct Cooperation)

In 2018, Charles University held a rector's conference titled "University and Republic. 100 years of Czechoslovakia / Czech Republic – Legacy of Democracy, Humanism and Responsibility" to commemorate the 100<sup>th</sup> anniversary of the foundation of the Czechoslovak Republic. It was attended by nearly eighty representatives from CU and foreign universities and the state and public sphere and media. The conference presented views on the international role of universities by personalities such as Professor Luc Sels from KU Leuven, Bert van der Zwaans from Utrecht University, or the former President of the European Commission José Manuel Durão Barroso. The international guests focused on the role of universities in politics, universities as a place for independent discussion and seeking truth, or European universities as a model for others. At the conclusion of the two-day conference, I and representatives of the European university associations Coimbra Group, Europaeum, LERU, and UNICA signed the Prague Appeal calling for the successful development of science and university cooperation across Europe.

The intensive development of the university in terms of building its infrastructure continued throughout 2018. This involved preparing the construction of educational and research centres in Plzeň (Unimec) and Hradec Králové (Mephared), the key Prague Kampus Albertov projects, the Faculty of Mathematics and Physics buildings in Troja, and plans to build a new university archive. At the same time, there have been major renovations of the main building of the Faculty of Arts and of another university building on Celetná Street. Another reconstruction project was launched at the Arnošt z Pardubic Refectory. In addition to building the university infrastructure, there were other projects aimed at securing the university's activities, in particular, improving the

## Rector's Introduction

functionality of the study information system, preparation of the data sources for launching the science evaluation system at CU, further expansion of the electronic filing system at the CU faculties, or preparations for implementing the GDPR.

The CU Internal Evaluation Board was actively working in 2018. In particular, it intensively prepared for the assessment of proposals of new study programmes and subsequent decision-making on their implementation. The Board approved the maximum period of study programme authorization of ten years, which corresponds to the validity of the institutional accreditation of Charles University. It also set the shortest period for five years, taking account of the difficulty of preparing study programme proposals and periods for their discussion. In addition, the Board also approved procedures for requesting inspection reports and adopting corrective actions. The Internal Evaluation Board also discussed the report on the evaluation of teaching by students and graduates at the CU faculties for the academic year 2016/2017 and a report on how the university fulfils the recommendations resulting from the international evaluation of CU under the Institutional Evaluation Programme.

### Institutional Accreditation for 23 Areas of Study

In April 2018, the university received the decision of the National Accreditation Bureau for Higher Education on awarding institutional accreditation for all the 23 areas of study for which the university applied. Following this, we were able to begin internal authorization of nearly all study programme proposals. Due to the necessity of accreditation of Bachelor and Master study programmes for successful applicants in the academic year 2019/2020 by the regular date of publication of the admission procedure conditions on 1 October, we have been already engaged in intensive preparations since the beginning of the year.

Another important element in terms of quality assurance of the university's educational activities was the Outlook of the CU study programmes, which is an overview of all study programmes that faculties plan to implement throughout the period of the institutional accreditation, especially in connection with the gradually expiring accreditation of the existing study programmes and fields of study. The outlook served as a basis for discussions about the overall structure of CU's educational activities across faculties according to educational areas, especially in view of possible content overlaps. The discussion resulted in proposals to integrate some of the existing study programmes into broader units with better-quality profiling and, in particular, better human resources. The outlook also served to prepare the schedule for discussing study

programme proposals in 2018, which facilitated the subsequent organization of the assessment and discussions of study programmes.

After receiving institutional accreditation, the Board began to intensively focus on assessing study programme proposals and deciding on approving their implementation. Another amendment to the Higher Education Act of July 2018, when the process of approving study programmes was already under way, extended the accreditation of all existing study programmes until 2024.

The university has always had ambitions to rank among the leading European universities. However, the creative work of our students and employees is very broad and thus we can mention only a few of their activities and results that demonstrate the quality of research at Charles University.

As regards the humanities, one of the important stages of the long-term edition project of the Centre for Biblical Studies, a joint workplace of the Institute of Philosophy of the Academy of Sciences of the Czech Republic and the Protestant Theological Faculty of CU, was concluded, where new commentaries to biblical books are gradually being prepared in broader institutional cooperation. During this year, the project generated seven volumes of this edition for publication, namely Genesis, Exodus, Book of Haggai, Acts of the Apostles, the Gospel of John, Second Epistle to the Corinthians, Second Epistle of Peter, and the Epistle of Jude.

In the field of social sciences, our chief efforts include research whose results were summarized in an article titled Social Contagion of Ethnic Hostility published in the magazine Proceedings of the National Academy of Sciences of the United States of America, one of the most prestigious and influential interdisciplinary magazines in the world. The article, created in cooperation of the academic staff of the Centre for Economic Research and Graduate Education with the authors from the Max Planck Institute for Tax Law and Public Finance and the Technical University of Košice, presents the results of world-unique research on social contagion of ethnic intolerance, including credible answers to difficult questions of why ethnic and racial conflicts often break out very quickly, even in societies marked by long-term peaceful coexistence. It is a rare achievement among Czech social scientists reaching far beyond the horizon of economics. The issue of violence and conflicts was also addressed by the newly established Centre for the Transdisciplinary Research of Violence, Trauma and Justice, which is supported from the funds of the university centres of excellence and involves the cooperation of five faculties and the Peace Research Centre Prague at CU, aiming to create a permanent platform for studying peace and conflicts in cooperation with the Faculty of Social Sciences, the Faculty of Law, and the Faculty of Arts.

In the educational sciences, I can mention the creation of a 14-member consortium International Centre of STEM Education. The project, coordinated by the Pädagogische Hochschule Freiburg and joined by CU's Faculty of Education, Faculty of Science, and Faculty of Mathematics and Physics, is aimed at improving education in mathematics, natural sciences, and technology fields across Europe.

In the area of medical sciences, there has been intensive cooperation among the research teams of the Third Faculty of Medicine with the industrial sphere and foreign institutions, which resulted in a significant increase in the results of applied research. These include utility models for nutrition for seniors, an optoelectronic fatigue sensor to measure the objective fatigue of drivers of motor vehicles, or bone replacement in orthopaedics and traumatology in the form of a special composite device or 3D replacement. Further, two new patent applications have been filed – a new type of diagnostics for mothers after complicated pregnancy and their children (the unique research team of Ilona Hromadníková) and the ergonomic docking stations for the endoscope of Jan Hajer's team. At the Faculty of Pharmacy, the team of Alexander Hrabálek finished a new series of highly efficient oxadiazole-based anti-mycobacterial substances and protected its most effective substance against the main agent of tuberculosis by filing a patent application. The Faculty of Medicine in Plzeň successfully sold its patent method for wet deposition of microbial culture on solid surfaces intended for taxonomic identification of cultures by desorption-ionization mass spectrometry techniques to BioVendor Instruments a. s.

Many other excellent results were also achieved and published in prestigious multidisciplinary and professional journals in the field of natural sciences. These include, for instance, the study

of the melting Greenland ice sheet published in the journal *Nature*, which shows that biological processes under ice can affect atmospheric greenhouse gas concentrations and consequently the Earth's climate; an article in the journal *Science* describing the space-time perceptibility of the rate of predation of waders' nests in connection with global climate change; a study of geographic variability in the songs of the yellowhammer in the Czech Republic published in the journal *IBIS*; or an article published in the journal *Nature Plants* which summarizes the results of research on how plant cells inherit information about polarity. It is also worth mentioning the funds obtained for seven projects from the INTER-EXCELLENCE programme focused on international cooperation in research to strengthen the international position of Czech science. The funds will be used for four projects of the Faculty of Science and three projects of the Faculty of Mathematics and Physics; their implementation will begin in 2019.

Dear colleagues,

To conclude my introduction, I would once again like to thank you for your trust and confidence in me during my second term as the Rector of Charles University. I have accepted my re-election with great humility and responsibility and as a great commitment. I would like to assure you that, as in previous years, my colleagues and I will make every effort to uphold the key principles of the functioning of the university, promote the freedom and quality of research and educational activities, and make certain that our Alma Mater maintains its internal integrity and autonomy, independence, and status as a prestigious European university.

Tomáš Zima,  
RECTOR OF CHARLES UNIVERSITY



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# 2018 in Eight Stories



# CU Acquired Unique Documents from 1347 Relating to its Foundation

prof. PhDr. Ing. Jan Royt, Ph.D.

Vice-Rector for Projects and Publishing

Charles University obtained two rare documents from a private collection which hold a great and, above all, symbolic significance not only for the beginnings of our university, but also for the history of the country. It is a valuable gift for the university to commemorate the 670<sup>th</sup> anniversary of its founding and the 100<sup>th</sup> anniversary of the formation of the independent Czechoslovak Republic.

The first document is Pope Clement VI's deed of 26 January 1347, which contains the Pope's consent to the establishment of a university in Prague, and the other, a notarial instrument initiated by the Prague Chapter of 30 June 1347 with an insert (copy) of the papal deed and a list of witnesses confirming the authenticity of the copy.

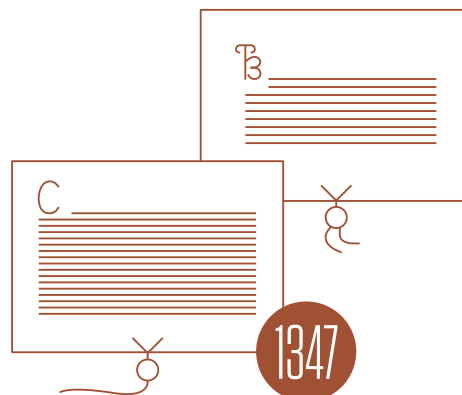
The papal deed dated 26 January 1347, written on Italian (South European) parchment, is in good condition. It is attached to a lead papal bull depicting the heads of the apostles St Peter and St Paul on the front and the name of Pope Clement VI, who was the educator of young Charles IV during his stay at the Paris royal court, on the back. The deed states that Pope Clement VI, upon Charles IV's request, grants consent to the establishment of a general university in Prague endowed with the right to educate masters and doctors and the right that gave validity to the university grades (titles, degrees) throughout western Europe at the time. Interestingly, French historians consider the date of this deed to be the date of the very foundation of the university. The deed was produced in two copies according to a concept still documented in the papal registers. The first copy, which had been stored in the university archive, was removed at the end of World War II together with the university's own copy of the foundation charter of Charles University and other valuable items and was undoubtedly destroyed. Similar to the preserved foundation charter, whose second copy was intended for the Archbishop of Prague, it was expected there was another lost copy of Clement's bull intended for the same recipient. This is because the Archbishop of Prague (it was Arnošt of Pardubice who sat on the St Adalbert's see at that

time) was appointed the university's chancellor with great powers. The significance of the papal deed is also evidenced by the fact that it was dispatched in a more glorious form than the lost university copy. And now, it has miraculously re-emerged.

The second document acquired, a notary instrument of 30 June 1347, written on parchment used in Bohemia, is slightly damaged, indicating its frequent use or less careful handling. It is attached with two wax seals, one of which has not survived to this day. As evidenced by the signature and notarial signet, it was issued by the then renowned public notary Petr Michalův of Prague. The instrument contains the inserted text of Clement's deed and the witnesses of the copy production – prominent members of the St Vitus Chapter.

The symbolic and factual significance of the two documents acquired by Charles University is all the greater because – as should be emphasized once again – the original university copy of the papal deed, along with other valuable documents, including the very first copy and the foundation charter of the Prague university with a golden bull, were probably destroyed at the end of World War II.

When restored, the two documents will be deposited in the archives of Charles University, hopefully "for eternity".





# A New Dimension of Cooperation among Leading European Universities

**Mgr. Adéla Jiroudková**

European Centre,  
Rectorate of Charles University

I was the main coordinator of the involvement of Charles University in the 4EU+ project. I have often worked with faculty researchers on their project applications, and this was a new experience and a great challenge for me to co-create such a large project at the university level. I strongly appreciate the great support for our activities from the university management, in particular, from Vice-Rector Lenka Rovníá, who is the very soul of the project.

The revolutionary idea of European university alliances was announced after the Gothenburg summit of EU presidents and prime ministers in November 2017. And we became immediately excited with the idea! We felt it was a great chance for our university on its path of further internationalization of science, teaching, and management.

Initially, we had difficulty obtaining enough information. Many important methodologies, documents, and directions were thus created almost on the run. However, the priority was clear – European universities should team up and converge at unprecedented intensity. It is about interconnecting universities and their cooperation at all levels, sharing resources, infrastructures, researchers, students, and administration through various activities and joint management.

In March 2018, Charles University formed a consortium with Sorbonne University, Heidelberg University, and Warsaw University. The consortium was later joined by the University of Milan and the University of Copenhagen. This has further strengthened the already prestigious consortium of the university research workplaces. Moreover, we have achieved a better geographical balance.

I really enjoyed working on this project, and I am grateful to have been part of such a revolutionary change in improving the quality of the European research and scientific sphere. It was not always easy, since six different universities with different histories and management also mean six different viewpoints on the consortium's direction, focus, and priorities.

Ultimately, we always reached a consensus and agreement. We were all aware of one thing – the idea of European university alliances is revolutionary and presents new opportunities for cooperation among all the universities involved, the exchange of experience and scientific and research knowledge, and completely new challenges in the areas of innovation and education.





# European Research Council Grant

**Mgr. Ondřej Pejcha, Ph.D.**

Principal investigator of the ERC grant,  
Faculty of Mathematics and Physics of Charles University

Since 1 January 2019, I have been engaged in the ERC Starting Grant “Catastrophic Interactions of Binary Stars and the Associated Transients” investigated at the Institute of Theoretical Physics of the Faculty of Mathematics and Physics of Charles University, often referred to as “Cat-In-hAT”. The projects aim to understand the critical phase in the development of two orbiting stars which suddenly begin to interact so strongly that one or both of them lose their envelope and highly approximate. In some cases, the two bodies even merge into a single strange object. This development phase is crucial for understanding the formation of tight binary stars composed of small and dense stars, such as white dwarfs, neutron stars, or black holes. Particularly interesting are close binary stars comprised of neutron stars whose collisions, accompanied by radiation of gravitational waves, are likely responsible for the formation of heavy elements, such as gold or uranium. The gravitational waves emitted as a result of this merging were recently detected by the LIGO/Virgo project. In “Cat-In-hAT”, I and a team of doctoral students and post-doctoral students will be devising new numerical methods that could be used to understand the structure of such interacting binary stars and to interpret the observations of the brightening that accompanies their fusion.

The ideas underlying the “Cat-In-hAT” project were formed during my doctoral studies at the Ohio State University and the subsequent post-doctoral stay at Princeton University. “Cat-In-hAT” is my second attempt to obtain an ERC. The previous project, with which I applied when still staying in the U.S., was not successful in the end, despite proceeding to the second round of the selection process. The theme of the “Cat-In-hAT” is similar to the first project, but

its methodology has changed. In „Cat-In-hAT“, I focused more on the astrophysical nature of the phenomenon and description of an ideal calculation that could explain the astronomical observations of merging binary stars. The calculation would also reveal the time scales of the phenomenon, which lies beyond the reach of the currently used methods. Along with the focus on the recently discovered brightening, the calculation is a high-risk/high-gain aspect of the project, something the ERC looks for.

Obtaining the ERC grant is first and foremost my commitment for the future to prove the quality of my scientific work. Furthermore, it will enable me to hire the best possible collaborators available and form my own scientific group.

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**Mgr. Matyáš Fendrych, Ph.D.**

Faculty of Science

Unraveling the molecular network that drives cell growth in plants

---

**Mgr. Ondřej Pejcha, Ph.D.**

Faculty of Mathematics and Physics

Catastrophic Interactions of Binary Stars and the Associated Transients

---

**prof. RNDr. Jaroslav Nešetřil, DrSc.**

Faculty of Mathematics and Physics

Dynamics and Structure of Networks

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# Charles University Innovations Prague s. r. o.

**Mgr. Otomar Sláma**

Director of CUIP, s.r.o.

Charles University is the very first university in the Czech Republic to establish an independent subsidiary for the transfer of scientific knowledge into practice, pushing the boundaries of practical use and funding of science, research, and innovation. In June 2018, CU decided to establish a fully owned subsidiary named Charles University Innovations Prague s.r.o., abbreviated as CUIP, which I am honoured to lead. CUIP has become an imaginary bridge between scientific teams and commercial entities. Our objective is to ensure the application of the university's knowledge and technology in practice. Our priority is to establish, manage, and invest in university spin-offs. This is a completely unique concept in the Czech tertiary education system which contributes substantially to the more efficient transfer of scientific knowledge and technology from the university to commercial partners, and thus the public.

It is both a great honour and an extraordinary challenge to serve as the director of this company. None of this would have been possible had it not been for the CUIP team consisting of Tereza Koubíková and my mentor and company executive Ivo Židek. We also work closely with the Centre for Knowledge and Technology Transfer (CPPT CU), which does a great deal of work in the identification and preparation of individual business cases eligible for commercialization.

This work is of utmost significance and contributes to the university's social impact on society. While researchers work on innovations that drive society forward and our colleagues at the CPPT CU develop and elaborate those ideas, our task is to find a suitable investor. In practice, for example, thanks to our researchers, liquid in a test tube was turned into a life-saving medicine. For me, working at CUIP under the patronage of Charles University is a mission that moves human society forward.





# A Way to Improve Pedagogical Skills

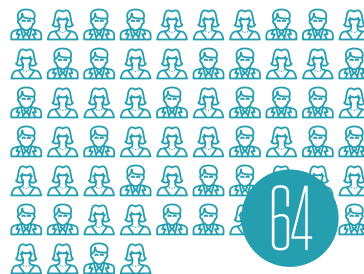
PhDr. Michal Zvírotsky, Ph.D.

Coordinator of the Centre for Educational Skills,  
Faculty of Education, Charles University

Bachelor, Master, Doctor, Associate Professor, Professor – all the titles awarded by our university refer in one way or another to the role of a teacher. From the Middle Ages to the present day, many graduates find work as teachers at various types and levels of education, including universities. Perhaps every scholar, at least sometimes, becomes a teacher, and many even find their purpose in educating their successors.

Nonetheless, the times when it sufficed for a university teacher to be an expert in their field are irreversibly gone. The changing nature of university education requires academics to become a biunique professional – not only a specialist in the field they teach, but also an expert in teaching in that field. This is the reason why many major universities systematically support their academics in acquiring and deepening pedagogical-psychological and didactic skills. Charles University has confirmed its long-term commitment in such training of its teachers by establishing the Paedagogium – Centre for Educational Skills. This coordinating platform covers a variety of activities aimed at promoting didactic competences, sharing teaching experience, and examples of “good practice”. These activities include not only the successful Educational Skills Course, but also various workshops and creative meetings with local and foreign experts. The idea of establishing the centre was born at the very heart of the university – the Karolinum – at a meeting of the Lifelong Learning Board; it has attracted a number of university and faculty representatives, and over the course of several months, it became strong and mature enough to be brought to life by the Rector’s Board. The name Paedagogium refers both to the institutionalized training of teachers, which has a long tradition in our lands, and to Latin, the former language of scholars that helped them understand each other regardless of nationality. Teaching (learning) understanding in the broadest sense of the word – that is the essence of a teacher’s activities, whether

they work in a remote village classroom or at a renowned university. That is why Charles University’s Paedagogium has existed since 2018.



Graduates of  
Pedagogical Skills  
Programme



Graduates of  
Teaching Workshop



# Modern and Interactive Exposition

**Bc. Miroslav Čermák**

Public Affairs and Communications Department,  
Rectorate, Charles University

I have been personally attending Gaudeamus post-secondary school and lifelong learning fairs since I was a student myself, since 2013. Already back then, we agreed with other students that it would be beneficial to modernize CU's exposition and to make it more attractive and pleasing.

Less than five years later – as an employee of the Rectorate – our close team, composed of Věra Nosková and Lída Součková from the Centre for Information, Counselling and Social Services, have been granted the necessary support from the university management to prepare a new exposition for the fair. The objective was to modernize the presentation of CU, as the most important university in the country.

At the beginning of 2018 the preparatory work on a new form of the university exposition began. Already from the start, we have engaged representatives of all of our 17 faculties into the process, as well as students, who are naturally the most important link between candidates and the university at any educational fair.

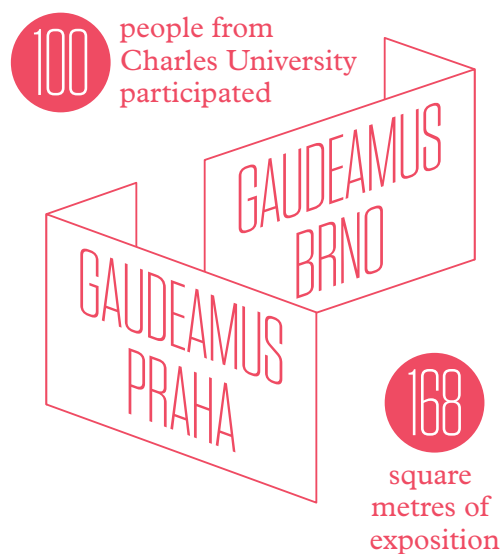
And the results?

The implemented design is based on our proven *Students to Students* presentation strategy, where students from all of our faculties serve as the main mediators of information for potential candidates. The students are aided by representatives of the Rectorate, Dormitories and Refectories, the Institute for Language and Preparatory Studies, and many other representatives of the university. The very exposition is divided into 17 faculty and other sections, including a relaxation and communication zone. There is also an accompanying programme titled *Science for Life*, where various fields cultivated at the university are presented in an interactive form.

The top priority of our work was to make the exposition graphically and design-pleasing and attractive for visitors – we adhere to the university's colours of red, black, and white, with a dominating 3 × 2 m LED screen projecting not only

facts about Charles University and its faculties, but especially presentations of university life. Another dominant feature of the exposition space is a large gypsum statue of Charles IV, who looks down upon the exposition, compelling passers-by to inspect it.

More than a hundred people participated in the preparation and implementation of the new exposition. It was a fantastic experience with a splendid finish – our exposition was awarded third place at the Prague Gaudeamus Fair.



# Charles University



# Unique Exhibition on The Anniversary of the Republic

Mgr. Jakub Jareš, Ph.D.,

Historian and curator

In 2018, I had the privilege to prepare an exhibition to commemorate the 100<sup>th</sup> anniversary of the founding of Czechoslovakia for Charles University. I should rather speak in the plural since the exhibition was a highly collective work.

At the beginning stood Charles University represented by Rector Tomáš Zima, Vice-Rector Jan Royt, and Director of the Institute of the History of Charles University and Archives of Charles University Petr Svobodný. They gave me the unprecedented freedom to design the theme and concept of the exhibition. The result was an exhibition that presents the history of the university and the Republic through 100 items – one for each year of the Republic's existence.

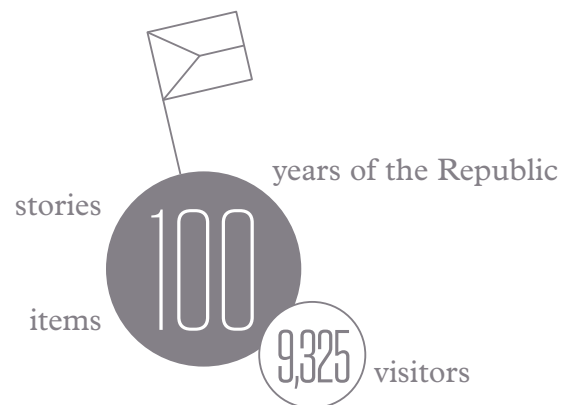
Their selection was once again a product of cooperation. I approached my colleagues from faculties, university institutes, and museums and, thanks to their tips and recommendations, I selected the 100 items. The next step was greatly influenced by architect Jan Klempíř and graphic artist Jáchym Šerých, who joined the preparations. It was them who transformed the idea into its physical form. All this took place in consultation and practical assistance of students in my seminar at the Faculty of Arts of Charles University (K. Bukovská, A. Fišerová, M. Harasimowicz, B. Hrenyová, K. Malá, A. Mojsl a T. Smolík). However, the list of persons participating in the exhibition is not exhaustive. Jana Peroutková played a crucial role as the manager of the celebrations and as a person who understands exhibitions (besides restoring one of the items).

Finally, it was the construction company of Mr Rous which turned our plans into reality, covered the exhibits with glass, and illuminated the exhibition. But the list still goes on!

The moment of the opening of the exhibition was also the moment for truly collective creation. Each visitor interprets it differently, aiding in its creation in a sense. Here, visitors were to select the 2018 item, for which we left an empty showcase. I have certainly missed a number of people: the translator,

proofreader, photographer, printer, custodians, lawyers, etc. In short, an exhibition is simply something that cannot be done without interaction and cooperation.

This is, by the way, something the university has in common with the Republic. Unison, cooperation, and mutual support – these are the foundations of their successful existence.



# Charles University





# Ceremonial Inauguration of the Rector of CU

**doc. PhDr. Tomáš Nigrin, Ph.D.**

Chairman of the Academic Senate  
of Charles University

University gatherings and ceremonies originate in ancient rituals and contain many symbolic legacies. Inauguration of a new (or old-new) Rector is certainly one of the most important of them. The ceremony follows the election of a candidate for this position by the Academic Senate and appointment of the Rector's closest team, usually Vice-Rectors and members of the Rector's Board. In October 2017, prof. MUDr. Tomáš Zima, DrSc., was elected for the second term (from 1 February 2018 until 31 January 2022) as the head of the university.

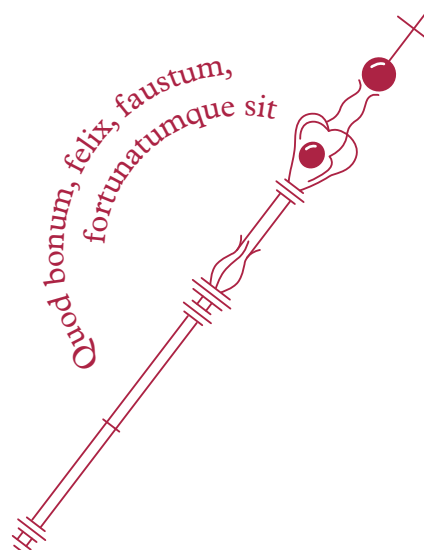
The inaugural meeting of the academic community was held on 7 March 2018 in the Great Hall of the Karolinum, which also marked the beginning of the second term of the old-new Rector. The meeting was attended by numerous guests from the Czech Republic and abroad, mainly from university institutions. The honour of the Chairman of Charles University's Academic Senate is not only to attend this extraordinary event, but also to hold certain responsibilities in it. How did the meeting unfold?

At the beginning, a procession of bearers holding insignia and representatives of Czech universities went through Hus'Gate, a ceremonial entrance, followed by the deans of the faculties of Charles University, rectors emeritus of CU, members of the Rector's Board, the Bursar, and Vice-Rectors. The ceremony was also attended by the acting Minister of Education, Youth and Sports, Robert Plaga. After the presentation of the members of the university management by the Vice-Rector Jan Royt, who moderated the meeting, Minister Plaga gave a speech. Then, as Chairman of the Academic Senate, I announced the choice of the Academic Senate for the position of the Rector, and also presented his previous work in the university management and his professional focus.

During inaugurations when a new Rector takes office, the departing Rector hands over the inaugural items (ring, seal, and key) to the new Rector. In this case, however, the Rector appeared before the academic community followed by Bursar

Miroslava Oliveriusová, who held the inaugural items. This is followed by another symbolic act – an oath to the academic community as the Chairman of the Academic Senate of Charles University.

Finally, the Rector gave his inaugural address, in which he presented his priorities for the upcoming term. With this, the Rector has duly commenced his second term as the 508th Rector of Charles University. The ceremony was, in the presence of a great number of guests, another in a series of rare and extraordinary events that took place at Charles University. The next inauguration of the new Rector is expected in March 2022.



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# Eight Views Into the Future of Charles University

**C**harles University must fully acknowledge its traditions, history, quality, and position in society in the Czech Republic and abroad and use these qualities to plan out its future development. In the 21st century, CU will continue to serve as a leading institution in the field of education and science with the modernization of its resources and staff and become increasingly more attractive for new students. It will protect the achievements of academic self-government, freedom of speech, research, and plurality of opinions. CU will open even more to the world to become a place of multicultural intertwining of the world's academic and scientific communities.

**prof. Ing. František Zahálka, Ph.D.**, Chairman of the Academic Senate of Charles University

**I**n recent years, I have noticed that our university has become more colourful, interesting, and unconventional. It is commonplace for us now to teach foreign students, try out new teaching methods, cooperate more with student associations, be more open and responsive to what happens in society, encounter more women in management and scientific boards, and automatically consider foreign experts when looking for new colleagues. I firmly hope this all will only increase in the coming decades.

**PhDr. Alice Němcová Tejkalová, Ph.D.**, Dean

**C**harles University has developed activities leading to pluralistic, interdisciplinary, and free research as well as educational activities in the fields it cultivates, both in the Czech Republic and abroad. The transformation of the internal order, establishment of academic self-government, and an increase in independence and the creative atmosphere are also essential. My vision for transforming CU lies in transforming the approach of students to increase their desire for knowledge and passion for the development of their university. Only a unity of efforts by the entire academic community can place CU at the absolute apex of European research and educational centres of excellence.

**prof. RNDr. Marie Stiborová, DrSc.**, Holder of a Donatio Universitatis Carolinæ research grant

**T**he 21st century will witness a transformation of both Charles University and the entire society. There is a clear departure from the liberal mindset, which has globally succeeded in politicizing virtually everything. The liberal position is based on the assumption that human nature does not exist, that it is plastic, and so we can do whatever we want. The university will educate individuals whose role in society will be determined by their abilities, skills, and behaviour, and not by their affiliation to certain groups, all holding full rights, but no responsibilities.

**prof. MUDr. Jindřich Fínek, Ph.D.**, Dean

**I** expect the 21st century to bring new knowledge in research and education at an unprecedented rate. It will undoubtedly change the contexts of all our work and our entire individual and social life. What will remain unchanged will be the need to learn and understand our world and make the right decisions when dealing with complex challenges in a new era. It is universities that are the ideal place to tackle these challenges.

**prof. ThDr. Martin Prudký, Member of the Internal Evaluation Board of Charles University**

**I**would be thrilled if the university kept climbing up the international ladders and perhaps joined the top 100 – that would be a fantasy.

It is my wish that the university remains open to the public, as it has done so far. I am thinking of concerts, exhibitions, lifelong learning days, and various conferences. I wish the university would continue to host prominent personalities from all around the world and continues repairing and renovating its interior and exterior spaces or constructing new buildings, such as the Albertov campus.

**Mgr. Josef Florian, CSc.**, Gatekeeper at the Karolinum

**T**he development of the university environment in the 21st century will follow the development of society. Charles University will open even more to foreign students at both the undergraduate and postgraduate levels. Teaching will be mostly in English. With the progression of digitalization will also come online teaching by experts from abroad. In the field of research, CU will be a competitive scientific institution that will be regularly awarded European funding. I also believe its academic freedoms will be preserved in full.

**Mgr. Veronika Skalická, a doctoral student**

**I** consider the loss of diversity – both biological and cultural – one of the greatest problems of our time. I dare assume Charles University will prepare leading experts and develop scientific activity to help solve this problem more than it has before. I also hope that, as an integral part of the community of the most important universities in the world, it will retain its distinctiveness formed over the centuries by Central Europe and Prague.

**Mgr. Miroslav Bobek, Director of the Prague Zoo, graduate of Charles University**



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# Summary of 2018

# Management



**Rector**  
prof. MUDr. Tomáš Zima, DrSc.



**Vice-Rector for Research**  
doc. RNDr. Jan Konvalinka, CSc.



**Vice-Rector for Academic Appointments**  
prof. JUDr. Aleš Gerloch, CSc.



**Vice-Rector for Development**  
prof. RNDr. Jan Hála, DrSc.



**Vice-Rector for European Affairs**  
prof. PhDr. Lenka Rovná, CSc.



**Vice-Rector for Public Affairs**  
prof. PhDr. Martin Kovář, Ph.D.



**Vice-Rector for Education**  
prof. MUDr. Milena Králíčková, Ph.D.



**Vice-Rector for Conception and Quality of Education**  
prof. PaedDr. Radka Wildová, CSc.



**Vice-Rector for Projects and Publishing**  
prof. PhDr. Ing. Jan Royt, Ph.D.



**Vice-Rector for International Affairs**  
prof. MUDr. Jan Škrha, DrSc.

# Annual Report



**Registrar**  
MUDr. Milan Prášil, MBA



**Bursar**  
Ing. Miroslava Oliveriusová



**Member of the Rector's Board**  
MUDr. Josef Fontana  
since 1 September 2018



**Member of the Rector's Board**  
prof. ThDr. Jan Blahoslav Lášek



**Member of the Rector's Board**  
doc. RNDr. Markéta Lopatková, Ph.D.  
since 1 February 2018



**Member of the Rector's Board**  
Chairman of Charles University  
Grant Agency  
prof. RNDr. Petr Volf, CSc.



**Member of the Rector's Board**  
PhDr. Alice Němcová-Tejkalová, Ph.D.  
until 31 January 2018



**Member of the Rector's Board**  
Chair of the Academic Senate  
of Charles University  
doc. PhDr. Tomáš Nigrin, Ph.D.



**Member of the Rector's Board**  
Mgr. Bc. Michal Zima

## 2 Faculties and Other Units of Charles University

Acronym	Faculty/other unit (English)	Address	Dean of faculty/director of other unit
KTF	Katolická teologická fakulta (Catholic Theological Faculty)	Thákurova 3, 160 00 Prague 6	ThLic. Prokop Brož, Th.D. – until 31 January 2018 prof. PhLic. Vojtěch Novotný, Th.D. – from 1 February 2018
ETF	Evangelická teologická fakulta (Protestant Theological Faculty)	Černá 9, 115 55 Prague 1	doc. Mgr. Jiří Mrázek, Th.D.
HTF	Husitská teologická fakulta (Hussite Theological Faculty)	Pacovská 350/4, 140 21 Prague 4	doc. ThDr. Kamila Veverková, Th.D.
PF	Právnická fakulta (Faculty of Law)	nám. Curieových 7, 116 40 Prague 1	prof. JUDr. Jan Kuklík, DrSc.
1. LF	1. lékařská fakulta (First Faculty of Medicine)	Kateřinská 32, 121 08 Prague 2	prof. MUDr. Aleksi Šedo, DrSc.
2. LF	2. lékařská fakulta (Second Faculty of Medicine)	V Úvalu 84, 150 06 Prague 5	prof. MUDr. Vladimír Komárek, CSc.
3. LF	3. lékařská fakulta (Third Faculty of Medicine)	Ruská 87, 100 00 Prague 10	prof. MUDr. Michal Anděl, CSc. – until 31 January 2018 prof. MUDr. Petr Widimský, DrSc. – from 1 February 2018
LFP	Lékařská fakulta v Plzni (Faculty of Medicine in Pilsen)	Husova 3, 306 05 Plzeň	prof. MUDr. Boris Kreuzberg, CSc. – until 31 January 2018 prof. MUDr. Jindřich Fínek, Ph.D. – from 1 February 2018
LFHK	Lékařská fakulta v Hradci Králové (Faculty of Medicine in Hradec Kralove)	Šimkova 870, 500 38 Hradec Králové	prof. MUDr. RNDr. Miroslav Červinka, CSc. – until 31 August 2018 prof. MUDr. Jiří Mandák, Ph.D. – from 1 September 2018
FaF	Farmaceutická fakulta v Hradci Králové (Faculty of Pharmacy in Hradec Kralove)	Heyrovského 1203, 500 05 Hradec Králové	prof. PharmDr. Tomáš Šimůnek, Ph.D.
FF	Filozofická fakulta (Faculty of Arts)	nám. Jana Palacha 2, 116 38 Prague 1	doc. Mirjam Friedlová, Ph.D. – until 31 January 2018 doc. PhDr. Michal Pullmann, Ph.D. – from 1 February 2018
PřF	Přírodovědecká fakulta (Faculty of Science)	Albertov 6, 128 43 Prague 2	prof. RNDr. Jiří Zima, CSc.
MFF	Matematicko-fyzikální fakulta (Faculty of Mathematics and Physics)	Ke Karlovu 3, 121 16 Prague 2	prof. RNDr. Jan Kratochvíl, CSc.
PedF	Pedagogická fakulta (Faculty of Education)	Magdalény Rettigové 4, 116 39 Prague 1	prof. PaedDr. Michal Nedělka, Dr.
FSV	Fakulta sociálních věd (Faculty of Social Sciences)	Smetanovo nábřeží 6, 110 01 Prague 1	PhDr. Jakub Končelík, Ph.D. – until 31 January 2018 PhDr. Alice Němcová Tejkalová, Ph.D. – from 1 February 2018
FTVS	Fakulta tělesné výchovy a sportu (Faculty of Physical Education and Sport)	José Martího 31, 162 52 Prague 6	doc. MUDr. Eva Kohlíková, CSc.
FHS	Fakulta humanitních studií (Faculty of Humanities)	U Kříže 8, 156 00 Prague 5	Ing. arch. Mgr. Marie Pětová, Ph.D.
ÚDAUK	Ústav dějin Univerzity Karlovy a archiv Univerzity Karlovy (Institute of the History of Charles University and Archive of Charles University)	Ovocný trh 5, 116 36 Prague 1	prof. PhDr. Petr Svobodný, Ph.D.



## Annual Report

Acronym	Faculty/other unit (English)	Address	Dean of faculty/director of other unit
CTS	Centrum pro teoretická studia (Center for Theoretical Study)	Jilská 1, 110 00 Prague 1	prof. RNDr. David Storch, Ph.D.
CERGE	Centrum pro ekonomický výzkum a doktorské studium (Center for Economic Research and Graduate Education)	Politických vězňů 7, 111 21 Prague 1	doc. Ing. Michal Kejak, M.A., CSc.
COŽP	Centrum pro otázky životního prostředí (Environment Centre)	U Kříže 8, 158 00 Prague 5	prof. Mgr. Ing. Jan Frouz, CSc.
ÚVT	Ústav výpočetní techniky (Computer Science Centre)	Ovocný trh 5, 116 36 Prague 1	Ing. Jakub Papírník
CPPT	Centrum pro přenos poznatků a technologií (Centre for Knowledge and Technology Transfer)	Ovocný trh 5, 116 36 Prague 1	Mgr. et Mgr. Hana Kosová
ÚJOP	Ústav jazykové a odborné přípravy (Institute for Language and Preparatory Studies)	Vratislavova 10/29, 128 00 Prague 2	PhDr. Ivan Duškov
ÚK	Ústřední knihovna (Central Library of Charles University)	Ovocný trh 5, 116 36 Prague 1	MUDr. Jitka Feberová, Ph.D. – until 20 February 2018 PhDr. Radka Římanová, Ph.D. – from 12 March 2018
ARVŠ	Agentura Rady vysokých škol (Agency of the Council of Higher Education Institutions)	José Martího 31, 162 52 Prague 6	Marie Štěrbová
KaM	Koleje a menzy (Dormitories and Refectories)	Voršilská 144/1, 116 43 Prague 1	Dipl.–Ing. Ing. Bc. Jiří Macoun
NK	Nakladatelství Karolinum (Karolinum Press)	Ovocný trh 5, 116 36 Prague 1	Mgr. Petr Valo
SBZ	Správa budov a zařízení (Premises and Facilities Administration)	Ovocný trh 5, 116 36 Prague 1	Ing. Antonín Rezek – from 1 February 2018
CK	Centrum Krystal (Krystal Centre)	José Martího 2, 160 00 Prague 6	Tomáš Lacina

## 3 Public Sources of Funding (in thousands CZK)

Name	Row No.
<b>Funds from public sources (grants and contributions) national and foreign (r. 2 + r. 27)</b>	<b>1</b>
of which: <b>1. Funds via (from) public budgets of CR (r. 3 + r. 13 + r. 20)</b>	<b>2</b>
of which: from MEYS chapter (r. 4 + r. 7)	3
of which: grants for structural funds programmes <sup>2</sup> (r. 5 + r. 6)	4
of which: grants associated with educational activity	5
grants for R&D	6
other grants (r. 8 + r. 12)	7
of which: grants associated with educational activity (r. 9 + r. 10 + r. 11)	8
contribution	9
grants associated with asset reproduction programmes	10
other grants	11
grants for R&D	12
from other state budget chapters (r. 14 + r. 17)	13
of which: grants for EU operational programmes (r. 15 + r. 16)	14
of which: grants associated with educational activity	15
grants for R&D	16
other grants (r. 18 + r. 19)	17
of which: grants associated with educational activity	18
grants for R&D	19
from regional budgets (r. 21 + r. 24)	20
of which: grants for EU operational programmes (r. 22 + r. 23)	21
of which: grants associated with educational activity	22
grants for R&D	23
other grants (r. 25 + r. 26)	24
of which: grants associated with educational activity	25
grants for R&D	26
of which: <b>2. Public funds from abroad (obtained directly by the uni) (r. 28 + r. 29)</b>	<b>27</b>
grants associated with educational activity	28
grants for R&D	29
<b>TOTAL 1<sup>3</sup> (r. 31 + r. 36)</b>	<b>30</b>
of which: grants associated with educational activity (r. 32 + r. 33 + r. 34 + r. 35)	31
of which: from MEYS chapter (r. 5 + r. 8)	32
from other state budget chapters (r. 15 + r. 18)	33
from regional budgets (r. 22 + r. 25)	34
public funds from abroad (obtained directly by the uni) (r. 28)	35
grants for R&D (r. 37 + r. 38 + r. 39 + r. 40)	36
of which: from MEYS chapter (r. 6 + r. 12)	37
from other state budget chapters (r. 16 + r. 19)	38
from regional budgets (r. 23 + r. 26)	39
public funds from abroad (obtained directly by the uni) (r. 29)	40
<b>TOTAL 2 (r. 42 + r. 46)</b>	<b>41</b>
of which: grants associated with educational activity (r. 43 + r. 44 + r. 45)	42
of which: grants for structural funds programmes (r. 5 + r. 15 + r. 22)	43

# Annual Report

I. Common funds		II. Capital funds		III. Total	
granted <sup>1</sup>	used	granted	used	granted	used
1	2	3	4	5	6
<b>8,433,476</b>	<b>8,077,397</b>	<b>1,767,255</b>	<b>1,416,053</b>	<b>10,200,731</b>	<b>9,474,929</b>
8,343,934	7,987,907	1,767,054	1,415,853	10,110,989	9,385,238
7,241,976	6,885,128	1,755,647	1,397,235	8,997,623	8,263,842
832,174	485,785	978,002	776,393	1,810,175	1,243,657
381,489	191,664	561,618	424,934	943,107	598,077
450,685	294,120	416,384	351,460	867,069	645,580
6,409,802	6,399,343	777,646	620,841	7,187,447	7,020,185
4,385,779	4,375,906	726,839	570,034	5,112,618	4,945,940
4,164,345	4,164,204	153,426	153,426	4,317,770	4,317,630
44,144	34,712	570,993	414,189	615,138	448,900
177,290	176,990	2,420	2,420	179,710	179,410
2,024,023	2,023,437	50,807	50,807	2,074,830	2,074,244
1,076,389	1,067,910	11,407	11,368	1,087,797	1,079,278
1,197	1,753	5,500	5,500	6,696	7,253
1,197	1,753	5,500	5,500	6,696	7,253
0	0	0	0	0	0
1,075,193	1,066,157	5,907	5,868	1,081,100	1,072,025
43,181	42,818	0	0	43,181	42,818
1,032,011	1,023,339	5907	5868	1,037,919	1,029,207
25,570	34,869	0	7,250	25,570	42,119
23,586	32,885	0	7,250	23,586	40,135
18,189	20,362	0	0	18,189	20,362
5,396	12,523	0	7250	5,396	19,773
1,984	1,984	0	0	1,984	1,984
1,733	1,733	0	0	1,733	1,733
251	251	0	0	251	251
89,542	89,491	200	200	89,742	89,691
1,339	1,339	0	0	1,339	1,339
88,203	88,151	200	200	88,403	88,351
8,433,476	8,077,397	1,767,255	1,416,053	10,200,731	9,474,929
4,832,907	4,635,575	1,293,956	1,000,468	6,126,864	5,617,522
4,767,268	4,567,570	1,288,456	994,968	6,055,724	5,544,017
44,378	44,571	5,500	5,500	49,878	50,070
19,922	22,095	0	0	19,922	22,095
1,339	1,339	0	0	1,339	1,339
3,600,569	3,441,822	473,298	415,585	4,073,867	3,857,407
2,474,708	2,317,558	467,191	402,266	2,941,899	2,719,824
1,032,011	1,023,339	5,907	5,868	1,037,919	1,029,207
5,647	12,774	0	7,250	5,647	20,024
88,203	88,151	200	200	88,403	88,351
8,433,476	8,077,397	1,767,255	1,416,053	10,200,731	9,474,929
4,832,907	4,635,575	1,293,956	1,000,468	6,126,864	5,617,522
400,875	213,779	567,117	430,434	967,993	625,692

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other grants (r. 8 + r. 18 + r. 25)	44
public funds from abroad (obtained directly by the uni) (r. 28)	45
grants for R&D (r. 47 + r. 48 + r. 49)	46
of which: grants for structural funds programmes (r. 6 + r. 16 + r. 23)	47
other grants (r. 12 + r. 19 + r. 26)	48
public funds from abroad (obtained directly by the uni) (r. 29)	49

1 Funds granted to the university by the Decision (columns 1, 3, and 5) and used for a specific purpose in accordance with the Decision (columns 2, 4, and 6).

**Granted:** funds received by the university in the calendar year based on the Decision. **Used:** funds used by the university in the calendar year for a specific purpose in accordance with the Decision.

2 Public funds for financing of structural fund projects; it includes all public funds (both the European and Czech part of the co-financing).

3 The part of the table Total 1 and Total 2 is used for classifying the data in the previous rows of the table.

## 4 Number of Study Programmes and Fields of Study Offered by Type of Study (Data Valid as on 31 October 2018)

Faculty	Programmes					Fields of study					Total programmes	Total fields of study
	Bachelor	Master	Post-Bachelor	Total undergraduate	Ph.D.	Bachelor	Master	Post-Bachelor	Total undergraduate	Ph.D.		
KTF	3	1	4	8	3	3	1	4	8	3	11	11
ETF	2	1	1	4	2	4	1	4	9	6	6	15
HTF	4	0	4	8	1	12	0	8	20	2	9	22
PF	0	1	0	1	1	0	1	0	1	13	2	14
1.LF	3	2	1	6	20	6	0	4	10	2	26	12
2.LF	2	1	1	4	13	2	0	1	3	0	17	3
3.LF	2	1	0	3	10	4	0	0	4	0	13	4
LFP	0	2	0	2	18	0	0	0	0	0	20	0
LFHK	1	2	0	3	22	1	0	0	1	1	25	2
FaF	1	1	1	3	4	1	1	1	3	9	7	12
FF	15	1	15	31	12	71	1	82	154	53	43	207
PřF	12	0	11	23	32	30	0	47	77	0	55	77
MFF	3	0	3	6	3	19	0	31	50	25	9	75
PedF	4	2	6	12	5	27	3	26	56	10	17	66
FSV	6	0	6	12	7	12	0	25	37	9	19	46
FTVS	2	0	2	4	2	11	0	11	22	0	6	22
FHS	1	0	6	7	6	1	0	11	12	11	13	23
<b>Total</b>	<b>61</b>	<b>15</b>	<b>61</b>	<b>137</b>	<b>161</b>	<b>204</b>	<b>8</b>	<b>255</b>	<b>467</b>	<b>144</b>	<b>298</b>	<b>611</b>

The source data is the registry data from SIMS of 20 November 2018 (data valid as of 31 October 2018)

The number of programmes corresponds to the number of unique study programme codes within a faculty studied at least by one student as of 31 October 2018 whose study has not been interrupted (incoming visiting students are not included).

The number of fields of study corresponds to the number of unique fields of study codes within a study programme and faculty studied at least by one student as of 31 October 2018 whose study has not been interrupted (incoming visiting students are not included). Fields of study endings with "000" are not included as these are technically established fields of study for study programmes without fields of study.

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4,430,693	4,420,457	726,839	570,034	5,157,532	4,990,491
1,339	1,339	0	0	1,339	1,339
3,600,569	3,441,822	473,298	415,585	4,073,867	3,857,407
456,081	306,643	416,384	358,710	872,465	665,353
3,056,285	3,047,028	56,714	56,675	3,112,999	3,103,703
88,203	88,151	200	200	88,403	88,351

## 5 Study Programmes and Fields of Study Accredited in a Foreign Language as of 31 December 2018

Faculty	Study programmes											
	Bachelor's			Master's			Post-Bachelor			Total		
	EN	DE	FR	EN	DE	FR	EN	DE	FR	EN	DE	FR
KTF										0	0	0
ETF	1						1			2	0	0
HTF										0	0	0
PF				2						2	0	0
1.LF				3			2			5	0	0
2.LF	1			1						2	0	0
3.LF				1						1	0	0
LFP				3						3	0	0
LFHK				3						3	0	0
FaF				2						2	0	0
FF		1					4	1	2	4	2	2
PřF	8						8			16	0	0
MFF	9						4			13	0	0
PedF	1			1			4			6	0	0
FSV	2	2					14	1		16	3	0
FTVS	5						4			9	0	0
FHS	2						4	2	1	6	2	1
<b>Total</b>	<b>29</b>	<b>3</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>4</b>	<b>3</b>	<b>90</b>	<b>7</b>	<b>3</b>

Faculty	Fields of study											
	Bachelor's			Master's			Post-Bachelor			Total		
	EN	DE	FR	EN	DE	FR	EN	DE	FR	EN	DE	FR
KTF										0	0	0
ETF	1						2			3	0	0
HTF										0	0	0
PF				2						2	0	0
1.LF				3			2			5	0	0
2.LF	1			1						2	0	0
3.LF				1						1	0	0
LFP				3						3	0	0
LFHK				3						3	0	0
FaF				2						2	0	0
FF		1					7	1	3	7	2	3
PřF	18						33			51	0	0

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Ph.D.							Total		
3-year			4-year						
EN	DE	FR	EN	DE	IT	RU	EN	DE	Other
			2	1	1		2	1	1
			2	2			2	2	0
	1		1				1	1	0
1			1				2	0	0
2			20				22	0	0
1			16				17	0	0
			14				14	0	0
2			20				22	0	0
			22				22	0	0
			8				8	0	0
5	2	1	26			1	31	2	2
3			31				34	0	0
			25				25	0	0
2	1		8	2			10	3	0
1			13				14	0	0
			2				2	0	0
5	3	2	12	1			17	4	2
<b>22</b>	<b>7</b>	<b>3</b>	<b>223</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>245</b>	<b>13</b>	<b>5</b>

Ph.D.							Total		
3-year			4-year						
EN	DE	FR	EN	DE	IT	RU	EN	DE	Other
			2	1	1		2	1	1
			7	4			7	4	0
	1		2				2	1	0
13			1				14	0	0
2			20				22	0	0
1			16				17	0	0
			14				14	0	0
2			20				22	0	0
			22				22	0	0
			16				16	0	0
10	2	2	40			2	50	2	4
4			31				35	0	0

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MFF	17						30			47	0	0
PedF	9			10			13			32	0	0
FSV	2	2					25	1		27	3	0
FTVS	5						5			10	0	0
FHS	2						7	2	1	9	2	1
<b>Total</b>	<b>55</b>	<b>3</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>124</b>	<b>4</b>	<b>4</b>	<b>204</b>	<b>7</b>	<b>4</b>

## 6 Total Number of Students by Faculty

Faculty	Bachelor		Mgr.		Post-Bachelor		Ph.D.		Total		Total
	Full-time	Com-bined	Full-time	Com-bined	Full-time	Com-bined	Full-time	Com-bined	Full-time	Com-bined	
KTF	163	145	51	0	104	112	55	31	373	288	661
ETF	139	163	0	2	27	47	21	34	187	246	433
HTF	437	35	0	0	184	21	30	9	651	65	716
PF	0	0	3,625	0	0	0	75	413	3,700	413	4,113
1.LF	342	205	2,995	0	114	255	448	451	3,899	911	4,810
2.LF	94	73	1,271	0	56	0	149	198	1,570	271	1,841
3.LF	305	158	1,493	0	0	0	122	199	1,920	357	2,277
LFP	0	0	1,920	0	0	0	71	119	1,991	119	2,110
LFHK	64	1	1,508	0	0	0	60	173	1,632	174	1,806
FaF	119	71	1,213	0	71	0	92	58	1,495	129	1,624
FF	3,073	208	3	0	1,588	109	608	427	5,272	744	6,016
PřF	2,269	0	0	0	1,114	0	880	540	4,263	540	4,803
MFF	1,328	14	0	0	525	6	289	203	2,142	223	2,365
PedF	2,023	942	457	231	755	527	154	104	3,389	1,804	5,193
FSV	2,001	420	0	0	1,589	318	347	100	3,937	838	4,775
FTVS	995	195	0	0	481	262	76	85	1,552	542	2,094
FHS	1,418	352	0	0	472	303	132	161	2,022	816	2,838
<b>Total</b>	<b>14,770</b>	<b>2,982</b>	<b>14,536</b>	<b>233</b>	<b>7,080</b>	<b>1,960</b>	<b>3,609</b>	<b>3,305</b>	<b>39,995</b>	<b>8,480</b>	<b>48,475</b>

The source data is the registry data from SIMS of 20 November 2018 (data valid as of 31 October 2018)

The data show numbers of different studies that are being studied and are not interrupted as of 31 October 2018 divided by faculty, type, and form of study. Incoming visiting students are not included.

## 7 Total Number of Students by Country and Region

Country/region	Number by residence	Number by citizenship
Czech Republic total	40,064	39,381
Prague	12,940	
Central Bohemian	7,958	
South Bohemian	2,481	
Plzeň	1,893	
Karlovy Vary	1,025	
Ústí nad Labem	2,510	
Liberec	1,650	
Hradec Králové	2,258	
Pardubice	1,569	



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			47				47	0	0
2	1		11	2			13	3	0
1			15				16	0	0
			2				2	0	0
8	3	3	13	1			21	4	3
<b>43</b>	<b>7</b>	<b>5</b>	<b>279</b>	<b>8</b>	<b>1</b>	<b>2</b>	<b>322</b>	<b>15</b>	<b>8</b>

Country/region	Number by residence	Number by citizenship
Vysočina	1,411	
South Moravian	926	
Olomouc	836	
Moravian-Silesian	1,648	
Zlín	959	
Slovak Republic total	3,399	3,540
Bánská Bystrica Region	296	
Bratislava Region	434	
Košice Region	641	
Nitra Region	290	

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Country/region	Number by residence	Number by citizenship
Prešov Region	658	
Trnava Region	195	
Trenčín Region	360	
Žilina Region	461	
Slovak Republic (not available)	64	
Russian Federation	707	859
Federal Republic of Germany	477	456
Ukraine	366	502
United Kingdom	272	263
United Arab Emirates	253	3
Portugal	202	209
Israel	202	197
Norway	147	148
United States of America	135	158
Greece	132	133
Iran	123	186
India	121	208
Italy	109	122
Sweden	105	107
China	86	98
Kazakhstan	80	98
Belarus	74	93
Turkey	68	71
Cyprus	67	65
Spain	60	67
Saudi Arabia	59	39
France	58	55
Poland	46	66
Serbia	41	46
Canada	39	44
Azerbaijan	35	39
Ireland	34	38
Georgia	34	37
Kuwait	34	2
Hungary	29	18
Armenia	26	34
Japan	23	26
Moldova	22	29
Occupied Palestinian Territories	22	26
Nigeria	22	23
Austria	22	22
South Korea	21	36
Uzbekistan	21	24
Lebanon	21	22
Albania	21	20
Egypt	20	72
Malaysia	20	17
Bosnia and Herzegovina	19	21

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Country/region	Number by residence	Number by citizenship
Brazil	19	20
Netherlands	19	18
Botswana	18	17
Thailand	18	16
Switzerland	18	12
Romania	17	27
Mexico	17	18
Vietnam	16	49
Croatia	16	31
Syria	15	59
Finland	15	15
Taiwan	15	14
Pakistan	13	43
Slovenia	13	12
Bulgaria	12	29
Kyrgyzstan	12	13
Bangladesh	10	14
Lithuania	10	13
Macedonia	10	11
Ghana	10	10
Nepal	9	11
Jordan	8	23
Mongolia	8	14
Kosovo	8	8
Indonesia	7	8
Zimbabwe	7	8
Cameroon	7	7
Australia	6	10
Ethiopia	6	7
Philippines	6	7
Peru	6	7
Ecuador	6	6
Chile	6	6
Belgium	6	5
Bahrain	6	4
Qatar	6	
Yemen	5	12
Latvia	5	8
Colombia	5	6
Seychelles	5	6
Kenya	5	5
Hong Kong	5	4
Iraq	4	19
Libya	4	7
Afghanistan	4	4
South Africa	4	4
Cape Verde	4	4
Myanmar	4	4

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Country/region	Number by residence	Number by citizenship
Zambia	4	3
Singapore	4	2
Tunisia	3	5
Argentina	3	4
Montenegro	3	4
Costa Rica	3	3
Tanzania	3	3
Uganda	3	3
Gibraltar	3	1
Sri Lanka	2	7
Morocco	2	5
Algeria	2	3
Benin	2	2
Estonia	2	2
Gabon	2	2
Malawi	2	2
Namibia	2	2
Tajikistan	2	2
Trinidad and Tobago	2	2
San Marino	2	1
Oman	2	1
New Zealand	2	
Sudan	1	5
Denmark	1	4
Maldives	1	2
Angola	1	1
Venezuela	1	1
Eritrea	1	1
Gambia	1	1
Grenada	1	1
Guinea	1	1
Haiti	1	1
Honduras	1	1
Jamaica	1	1
Cambodia	1	1
Laos	1	1
Mali	1	1
Malta	1	1
Isle of Man	1	1
Panama	1	1
Papua New Guinea	1	1
Sierra Leone	1	1
Senegal	1	1
Saint Lucia	1	1
Togo	1	1
Uruguay	1	1
Congo	1	
Luxembourg	1	

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Country/region	Number by residence	Number by citizenship
Other	1	
Dominica		2
Burkina Faso		1
Iceland		1
Nicaragua		1
Ivory Coast		1
Rwanda		1
Somalia		1
Saint Kitts and Nevis		1
<b>Total</b>	<b>48,475</b>	<b>48,475</b>

The source data is the registry data from SIMS of 20 November 2018 (data valid as of 31 October 2018) complemented with data from the Student application (table PERSON in the case of Slovak students – postal code data as of 27 February 2019).

Included are only current studies not interrupted (visiting students are not included), divided by countries and regions of permanent residence.

The data correspond to the number of studies divided by region according to the data obtained from the address of permanent residence so the region corresponds to the relevant district according to SIMS data in the case of students with an address in the Czech Republic, or postal code according to the data from the Student application for students with an address in the Slovak Republic, or state for other students.

## 8 International University Agreements on Direct Cooperation

Country	Number of partners in the country	Partner
Albania	2	Universiteti i Mjekesise Tirane
		Universiteti i Tiranes
Andorra	1	Government of the principality of Andorra
Armenia	1	Yerevan State University
Australia	4	Semmelweis University
		Macquarie University
		The University of Melbourne University of Queensland
Austria	6	Johannes-Kepler-Universität Linz
		Medizinische Universität Graz
		Medizinische Universität Wien
		Paracelsus Medizinische Privatuniversität Salzburg
		Technische Universität Wien Universität Wien
Azerbaijan	1	Baku State University
Belgium	1	Katholieke Universiteit Leuven
Belarus	1	Belarusian State University
Brazil	2	Universidade de Sao Paulo
		Universidade Federal do Rio Grande do Sul
Bulgaria	1	Sofia University“St. Kliment Ohridski”
Canada	6	Concordia University
		McGill University, The Royal Institution for the Advancement of Learning
		Simon Fraser University
		St. Francis Xavier University
		Université de Montréal University of Toronto

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Country	Number of partners in the country	Partner
China	8	Beijing Foreign Studies University
		Beijing International Studies University
		East China Normal University
		Guangdong University of Foreign Studies
		Peking University
		Renmin University of China, Peking
		Shanghai International Studies University
		State Administration of Foreign Experts Affairs
Chile	1	Universidad de Chile
Croatia	1	University of Zagreb
Dominican Republic	2	Ministry of Higher Education, Science and Technology
		Universidad Autónoma de Santo Domingo
Egypt	2	Cairo University
		El Minia University
Estonia	1	University of Tartu
Finland	1	University of Eastern Finland
France	9	College de France
		Ecole des hautes études en sciences sociales, Paris
		Ecole Pratique des Hautes Etudes, Paris
		French Embassy in the Czech Republic, Center national de la recherche scientifique, Academy of Sciences of the Czech Republic
		Université de Rouen
		Université de Strasbourg
		Université Panthéon-Assas Paris 2
		Université Paris 1 Panthéon-Sorbonne
Université Paris Diderot – Paris 7		
Georgia	2	Free University of Tbilisi
		Ivane Javakhsishvili Tbilisi State University
Germany	32	Albert-Ludwigs-Universität Freiburg
		Carl von Ossietzky Universität Oldenburg
		Eberhard-Karls-Universität Tübingen
		European University Viadrina Frankfurt (Oder)
		Freie Universität zu Berlin
		Friedrich-Alexander-Universität Erlangen – Nürnberg
		Friedrich-Schiller-Universität, Jena
		Heinrich-Heine-Universität Düsseldorf
		Hochschule für Musik Theater und Medien Hannover
		Humboldt-Universität zu Berlin
		Institut Jacques Delors
		Johann-Wolfgang-Goethe-Universität Frankfurt am Main
		Julius-Maximilians-Universität Würzburg
		Justus-Liebig-Universität Gießen
		Ludwig-Maximilians-Universität München
		Martin-Luther-Universität Halle-Wittenberg
Otto-Friedrich-Universität Bamberg		
Philipps-Universität Marburg		
Rheinische Friedrich-Wilhelms-Universität Bonn		

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Country	Number of partners in the country	Partner
		Ruprecht-Karls-Universität Heidelberg
		Technische Universität Dortmund
		Technische Universität Dresden
		Technische Universität Chemnitz
		Universität Bayreuth
		Universität des Saarlandes
		Universität Hamburg
		Universität Konstanz
		Universität Leipzig
		Universität Passau
		Universität Potsdam
		Universität Regensburg
		Universität zu Köln
Great Britain	4	Swansea University
		The University of Edinburgh
		The University of St Andrews
		University of Hull
Greece	4	Sapienza University of Rome
		National and Kapodistrian University of Athens
		University of Macedonia
		University of the Aegean
Hungary	1	Eötvös Loránd University
Iran	1	Tehran University of Medical Sciences
Italy	10	Elettra Sincrotrone Trieste
		Sapienza Università di Roma
		Università Ca' Foscari Venezia
		Università degli Studi di Bergamo
		Università degli Studi di Ferrara
		Università degli Studi di Genova
		Università degli Studi di Padova
		Università degli Studi di Perugia
		Università di Siena
		University of Rome Tor Vergata
Israel	5	Bar Ilan University
		Ben Gurion University of the Negev, Beer-Sheva, Izrael
		The Hebrew University of Jerusalem
		University of Tel Aviv, Tel Aviv
		Weizmann Institute of Science
Japan	12	Doshisha University, Kyóto
		Joetsu University of Education
		Josai University
		Kanazawa University
		Kobe University
		National Institute for Materials Science, Tsukuba
		Osaka Sangyo University, Osaka
		Ritsumeikan University
		Tokyo Foundation for Policy Research

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Country	Number of partners in the country	Partner
		Tokyo University of Foreign Studies
		University of Sacred Heart
		University of Tsukuba
		Waseda University, Tokyo
Kazakhstan	3	Asfendiyarov Kazakh National Medical University
		Kazakh Ablai khan University of International Relations and World Languages
		M. Auezov South Kazakhstan State University
Latvia	1	Latvijas Universitate
Lithuania	1	Vilniaus universitates
Luxembourg	1	Université du Luxembourg
Macedonia	1	SS. Cyril and Methodius University in Skopje
Malta	1	L-Università ta' Malta
Mexico	4	Instituto Tecnológico de Zacatepec
		Instituto Tecnológico y de Estudios Superiores de Monterrey
		Universidad Michoacana de San Nicolás de Hidalgo, Morelia
		Universidad Nacional Autónoma de México, México D.F.
Mongolia	1	The National University of Mongolia
Netherlands	1	Universiteit Leiden
New Zealand	1	University of Otago
Norway	1	Universitetet i Oslo
Oman	1	Sultan Qaboos University
Peru	2	Universidad de Lima
		Universidad Nacional Mayor de San Marcos
Philippines	1	Ateneo de Manila University
Poland	8	Uniwersytet im. A. Mickiewicza w Poznaniu
		Uniwersytet Jagielloński w Krakowie
		Uniwersytet Łódzki
		Uniwersytet Marii Curie-Skłodowskiej
		Uniwersytet Opolski
		Uniwersytet Pedagogiczny im. Komisji Edukacji Narodowej w Krakowie
		Uniwersytet Warszawski
		Uniwersytet Wrocławski
Portugal	1	Universidade de Coímbra, Coímbra
Republic of Korea	10	Dankook University
		Hankuk University of Foreign Studies
		Korea Advanced Institute of Science and Technology (KAIST)
		Korea Basic Science Institute
		Korea Institute of Science and Technology (KIST)
		Korea University
		Kyung Hee University
		Sahmyook University
		Sungkyunkwan University, Seoul
		The Academy of Korean Studies
Russia	2	Lomonosov Moscow State University
		Saint Petersburg University
Singapore	1	Nanyang Technological University



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Country	Number of partners in the country	Partner
Slovak Republic	6	Prešovská univerzita v Prešove
		Trnavská univerzita v Trnave
		Univerzita Mateja Bela v Banskej Bystrici
		Univerzita Komenského v Bratislave
		Univerzita Konštantína Filozofa v Nitre
		Univerzita P. J. Šafárika v Košiciach
Slovenia	2	Univerza v Ljubljani
		Univerza v Mariboru
South Africa	2	University of Cape Town
		University of Pretoria
Serbia	1	Univerzitet u Beogradu
Spain	4	Universidad de Castilla-La Mancha
		Universidad de Granada
		Universitat de Barcelona
		Universitat Pompeu Fabra
Switzerland	4	Universität Basel
		Universität Zürich
		Université de Geneve
		Université de Lausanne
Taiwan	3	National Chengchi University
		National Taiwan University
		Tamkang University
Turkey	2	Ankara Üniversitesi
		Velvyslanectví Turecké republiky
Ukraine	4	Ivan Franko National University of Lviv
		Odessa I. I. Mechnikov National University
		Taras Shevchenko National University of Kyiv
		Uzhhorod National University
USA	15	Brown University
		Georgia Institute of Technology
		Chapman University
		Kansas State University
		North Carolina State University
		State University of New York at New Paltz
		University of Alabama at Birmingham
		University of California San Diego
		University of Massachusetts Lowell
		University of Minnesota
		University of Montana
		University of New Orleans
		University of Oregon
		University of Texas at Austin
University of Washington, Seattle		
Uzbekistan	2	Academy of Sciences of Uzbekistan
		Ferghana State University
<b>Total</b>	<b>209</b>	

## 9 Mobility of Academic and Research Staff

	Number of incoming <sup>1</sup>		Number of outgoing <sup>2</sup>	
	less than 5 work. days	more than 5 work. days	less than 5 work. days	more than 5 work. days
Faculty agreement	112	150	61	71
Conferences and symposia	1,548	2,190	377	46
Short-term lecture stays	194		373	
Long-term lecture stays		609		331
Expert stays	56	637	19	103
Inter-university agreement	6	102	16	113
Other	118	925	55	176
<b>Total</b>	<b>2,034</b>	<b>4,613</b>	<b>901</b>	<b>840</b>

1 Outgoing academic staff – (i.e., number of departures) – who were on a stay abroad in 2018; also included are those whose stay began in 2017.

2 Incoming academic staff – (i.e., number of departures) – who arrived from a stay abroad in 2018; also included are two whose stay began in 2017.

## 10 Mobility of Other Non-Academic and Non-Research Staff

	Number of incoming <sup>1</sup>		Number of outgoing <sup>2</sup>	
	less than 5 work. days	more than 5 work. days	less than 5 work. days	more than 5 work. days
Faculty agreement	1	3	9	
Conferences and symposia	58	4		
Short-term lecture stays	2			
Long-term lecture stays		3		
Expert stays	11	13	9	46
Inter-university agreement	9	35	13	
Other				
<b>Total</b>	<b>81</b>	<b>58</b>	<b>31</b>	<b>46</b>

1 Outgoing staff – (i.e., number of departures) – who were on a stay abroad in 2018; also included are those whose stay began in 2017.

2 Incoming staff – (i.e., number of departures) – who arrived from a stay abroad in 2018; also included are two whose stay began in 2017.

## 11 Mobility of Students

	Number of incoming <sup>1</sup>		Number of outgoing <sup>2</sup>	
	Less than 2 weeks	More than 2 weeks	Less than 2 weeks	More than 2 weeks
Faculty agreement	44	58	173	252
Conferences and symposia	448	18	13	1
Short-term lecture stays	268		136	
Long-term lecture stays		907		1,955
Expert stays	9	444	1	208
Inter-university agreement		111		114
Development programmes				
Other	8	82		112
<b>Total</b>	<b>777</b>	<b>1,620</b>	<b>323</b>	<b>2,642</b>

1 Outgoing students – (i.e., number of departures) – who were on a stay abroad in 2018; also included are those whose stay began in 2017.

2 Incoming students – (i.e., number of departures) – who arrived from a stay abroad in 2018; also included are two whose stay began in 2017.

## 12 Strategic Partnerships and Groups

Country	University
Australia	University of Melbourne – internal strategic value partner Macquarie University
Austria	University of Vienna
Belgium	Katholieke Universiteit Leuven
Canada	McGill University – internal strategic value partner
China	Peking University – internal strategic value partner
Germany	Humboldt University of Berlin University of Cologne Heidelberg University
Great Britain	University of Oxford – internal strategic value partner University of Edinburgh – internal strategic value partner University of Cambridge – internal strategic value partner
Hungary	Eötvös Loránd University
Israel	Hebrew University of Jerusalem – internal strategic value partner
Netherlands	Leiden University – internal strategic value partner
Poland	Jagiellonian University in Krakow – internal strategic value partner University of Warsaw
Switzerland	University of Zurich
CELSA	Group of seven universities: CU, Technical University in Prague, KU Leuven, ELTE University, Budapest University of Technology and Economics, Semmelweis University, University of Ljubljana.
CENTRAL	Group of five universities: CU, Humboldt University of Berlin, University of Vienna, ELTE University, University of Warsaw
4EU+	Group of six universities: CU, Heidelberg University, Sorbonne University, University of Warsaw, University of Copenhagen, University of Milan

## 13 Funding of Research and Development (Excluding Funds for EU Operational Programmes) (in thousands CZK)

Type of support/programme title	Funds from public sources			
	Common		Capital	
	Granted <sup>1</sup>	Used <sup>2</sup>	Granted <sup>1</sup>	Used <sup>2</sup>
<b>Other state budget chapters</b>	<b>1,032,011</b>	<b>1,023,339</b>	<b>5,907</b>	<b>5,868</b>
<b>Ministries</b>	<b>49,162</b>	<b>48,775</b>	<b>1,764</b>	<b>1,737</b>
Ministry of Culture	31,322	30,935	1764	1737
Ministry of Agriculture	7,516	7,516	0	0
Ministry of the Interior	10,324	10,324	0	0
Grant agencies	982,849	974,564	4,143	4,131
GA ČR	698,968	693,488	2696	2695
TA ČR	31,747	31,478	0	0
AZV ČR	252,134	249,598	1447	1436
<b>Regional budgets</b>	<b>251</b>	<b>251</b>	<b>0</b>	<b>0</b>
Municipalities, regions, Prague City Hall	251	251		
<b>Funds from abroad (obtained directly by the uni)</b>	<b>88,203</b>	<b>88,151</b>	<b>200</b>	<b>200</b>
<b>EU excl. EU funds</b>	<b>83,085</b>	<b>83,034</b>	<b>110</b>	<b>110</b>
Framework programmes	14,922	14,922	0	0
Horizont 2020	44,108	44,108	110	110
EU other – European Commission	24,054	24,003	0	0
<b>Other funds from abroad outside EU</b>	<b>5,118</b>	<b>5,118</b>	<b>90</b>	<b>90</b>
Foreign universities, foundations, and other collaboration outside the EU	5,118	5,118	90	90

1 Granted: funds provided to the university in the calendar year as support for R&D pursuant to Act no. 130/2002 Sb. Corresponding with the volume indicated in the Decision.

2 Used: funds used by the university in the calendar year for a specific purpose in accordance with the Decision.

3 Funds transferred for other projects/activities to other co-investigators outside the CU.

4 Targeted support fund (Section 18 paragraph 6 of the Universities Act). Funds not used by the university in the calendar year and transferred to the TSF. They are included in the "Used" funds in this table.

5 The column indicates "total other non-public sources used" and contains funds for co-financing of programmes/activities listed in individual rows (from non-public sources)

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Total		of which to co-investigators <sup>3</sup>	of which transferred to TSF <sup>4</sup>	Return of non-used funds	Other non-public funds used <sup>5</sup>	Total sources used
Granted <sup>1</sup>	Used <sup>2</sup>					
<b>1,037,919</b>	<b>1,029,207</b>	<b>157,790</b>	<b>10,841</b>	<b>8,711</b>	<b>92</b>	<b>1,029,300</b>
<b>50,926</b>	<b>50,513</b>	<b>3,254</b>	<b>1,128</b>	<b>414</b>	<b>62</b>	<b>50,575</b>
33,086	32,672	1,722	851	414	0	32,672
7,516	7,516	1532	0	0	62	7,578
10,324	10,324	0	277	0	0	10,324
986,992	978,695	154,537	9,713	8,297	30	978,725
701,664	696,183	118,186	7,693	5,481	2	696,185
31,747	31,478	2542	376	269	0	31,478
253,581	251,034	33,809	1,644	2,547	28	251,062
<b>251</b>	<b>251</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>251</b>
251	251					251
<b>88,403</b>	<b>88,351</b>	<b>51</b>	<b>0</b>	<b>0</b>	<b>4,399</b>	<b>92,750</b>
<b>83,194</b>	<b>83,143</b>	<b>51</b>	<b>0</b>	<b>0</b>	<b>4,399</b>	<b>87,542</b>
14,922	14,922				2000	16,922
44,218	44,218				0	44,218
24,054	24,003	51			2,399	26,402
<b>5,208</b>	<b>5,208</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,208</b>
5,208	5,208					5,208

## 14 Transfer of Knowledge and Results of Research in Practice (in thousands CZK)

Charles University	In the CR	Abroad	TOTAL number	TOTAL income
Number of new spin-offs/start-ups <sup>1</sup>				
Patent applications filed	12	3	15	
Patents awarded <sup>2</sup>	7	2	9	
Utility models registered	3	0	3	
License agreements valid as of 31 December 2018			10	
License agreements newly concluded			2	
Contractual research <sup>3</sup> consulting and counselling <sup>3</sup>			175	18,873,111
Paid training courses for employees of the application sphere subjects <sup>3</sup>				

1 Newly established spin-offs/start-ups supported by the university in 2018 (numbers).

2 EU patents under section "Abroad" are included only once regardless of the number of countries covered.

3 The definitions of income items and their values in the table correspond to the Annual Financial Report for 2018 of the university (Table 6). The university completes these items at its discretion.

Licensing agreement is defined as the granting of a right in the agreed scope and on the agreed territory to acquire or grant a licence to some intellectual and industrial property. Licensing agreements are concluded for patented inventions or registered utility models, industrial designs, topography of semiconductor products, new plant varieties or animal breeds, or trade marks by means of a written instrument. The licensor authorizes the licensee to exercise certain rights of intellectual and industrial property within the agreed scope and on the agreed territory in return for a consideration (royalties) or other property values. The licensee is thus exempt from violation of the licensor's intellectual property or copyright.

Contractual research is custom research based on cooperation (interaction) specifically fulfilling primarily the research needs of application sphere subjects implemented by a university institution according to its requirements and needs. The university receives funds from the subject in return for conducting the research. This typically includes larger projects, original research, and written reports. Contractual research is

usually commissioned by a specific external organization (for its use). It is irrelevant whether the funds invested by the application sphere subject come from public or private sources. Contractual research cannot be considered a case where the university is a recipient of targeted support for applied research.

Paid training courses that increase the qualifications of employees in the application sphere (e.g., company training courses). In this case, an application sphere subject is a legal person whose primary scope of activity is not research and development. It can be a business entity, public authority, non-profit organization, etc., always with the condition that the primary scope of activity is not research and development. Included is income from "custom-made" training courses, designed in agreement with the organization for its employees. This is not a calculation of the costs of participants of the training courses who are employed in a company that meets the above definition. These are courses developed in agreement with the given company, which wanted to train its employees.

Consulting and counselling is based on providing expert advice, opinions, or activity that depends on a high degree of intellectual input from a university institution provided to the client. The university provides consulting and counselling to application sphere subject for consideration in accordance with market conditions. The main desired outcome of consultation is not creation of new knowledge but understanding of a particular state.

### Summary information for Table 14

Newly concluded licensing agreements, contractual research, consulting, counselling, and paid training courses for employees of the application sphere subjects	Total number	177
	Total income	18,873,111
	Average income per contract	106,628

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## 15 Standing of CU in selected international rankings in 2018

Ranking	Standing
Times Higher Education World University Rankings	459
Fields:	
Arts and humanities	167
Clinical, pre-clinical and health	355
Computer Science	417
Education	317
Law	182
Life sciences	321
Physical sciences	445
Psychology	324
Social sciences	333
<b>QS World University Rankings</b>	<b>317</b>
Subject areas:	
Arts & Humanities	193
Biological Sciences	251
Chemistry	295
Communication and Media Studies	183
Computer Science and Information Systems	285
Economics and Econometrics	253
Engineering & Technology	422
English Language and Literature	144
Environmental Studies	252
Geography	71
History	154
Life Sciences & Medicine	219
Linguistics	137
Material Sciences	276
Mathematics	180
Medicine	172
Modern Languages	113
Natural Sciences	197
Pharmacy and Pharmacology	157
Philosophy	81
Physics and astronomy	213
Political science and International studies	133
Social Sciences	302
Sociology	195
<b>Academic Ranking of World Universities</b>	<b>230</b>
Fields:	
Agricultural sciences	161
Atmosphere sciences	249
Biological sciences	317
Biotechnology	382
Chemistry	259

<b>Ranking</b>	<b>Standing</b>
Clinical medicine	159
Communication	244
Earth sciences	175
Ecology	140
Economics	79
Environmental sciences	298
Financial economics	191
Geography	165
Human biology	267
Informatics	309
instruments and measurements	161
Material sciences	312
Mathematics	179
Medical technologies	250
Metallurgy	138
Nanosciences and nanotechnologies	371
Pharmacy	165
Physics	91
Political science	234
Power engineering	394
Psychology	261
Public health sciences	336
Sociology	199
Sports	280
Statistics	176
<hr/>	
<b>Best Global Universities</b>	<b>204</b>
Fields:	
Arts and humanities	195
Astronomy	168
Biology and biochemistry	215
Botany and zoology	86
Chemistry	205
Clinical medicine	150
Economics	111
Engineering sciences	559
Environmental sciences and ecology	148
Geosciences	196
Immunology	185
Material sciences	304
Mathematics	78
Microbiology	140
Molecular biology and genetics	183
Neuroscience and behavioural sciences	166
Pharmacology and toxicology	140
Physics	66
Social and health sciences	286



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<b>Ranking</b>	<b>Standing</b>
National Taiwan University Ranking	188
Field groups:	
Agricultural sciences	170
Clinical medicine	174
Life sciences	229
Natural sciences	174
Fields:	
Botany and zoology	101
Chemistry	229
Environmental sciences and ecology	166
Geosciences	176
Mathematics	115
Pharmacology and toxicology	184
Physics	153

Source: websites of individual rankings and own calculations

## 2018 Annual Report Charles University

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