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# Projects at CU

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## Success stories

*"Have you ever thought about the incredible ability of organisms to adapt to the changing environment? It's fascinating to witness how different species can independently develop similar adaptations to overcome similar challenges. And that's what I'm exploring in my MSCA project: the process of **repeated adaptation in nature**."*

Says Magdalena Bohutínská, who is currently spending two years in Bern, Switzerland, about her MSCA project.

**Financed:** Horizon Europe, Marie Skłodowska Curie Actions - Postdoctoral Fellowship

**Fellow:** Dr. Magdalena Bohutínská (PřF UK)

Bringing top-class researchers to the **Biomedical Center of the Faculty of Medicine in Pilsen**, be it established experts or promising young scientists and Ph.D. students, is a major way of enhancing the Center's excellence.

The EU-funded **Chaperon action** supports this effort through the **recruitment of a world-class cancer researcher Prof. Kari Hemminki to the position of the ERA Chair holder**. Taking charge of the newly established **Laboratory of Translational Cancer Genomics**, [Prof. Hemminki](#) helps the whole institution take the lead in research, but also moderates the transformation of human resource policies and managerial processes.

**Financed:** Horizon 2020, ERA Chairs

**Coordinator:** [Biomedical Center](#) (LFP UK)

### CHAPERON NEWSLETTERS

**CoSP** project funded research fellowships for **52 scientists at top universities in the USA and Canada**, including Rutgers, Princeton, Simon Fraser, and UC Berkeley. Scientists from **MFF UK and partner institutions** collectively spent 143.5 months across the Atlantic.

The project **united combinatorialists** to enhance techniques using **topology, probability, statistical physics, and algebra**. A key focus was the **intersection of two matroids**, which generalized matchings in bipartite graphs. Researchers explored **fine-grained complexity** and developments in **statistical physics** that linked matchings, colorings, and homomorphisms. The project aimed to address open questions and explore connections between **Ramsey theory, model theory, and graph homomorphisms**.

**Financed:** Horizon 2020, Marie Skłodowska Curie Actions – Research and Innovation Staff Exchange

**Coordinator:** [Prof. Martin Loeb](#) (MFF UK)

**MOVES** is a **consortium project involving Charles University** together with four other prestigious European universities - **Universidade do Porto, Freie Universität Berlin, Université Paul-Valéry Montpellier 3 and the University of Kent** - and partners from the NGO sector and creative industries.

The MOVES project aims to **provide a comprehensive understanding of the social, historical and cultural roots of mass migration waves**.

*"An estimated billion people have emigrated from their homeland, including some 60 million migrants in Europe. The recent enormous scale of migrations has become a leading global challenge. However, today's 'migration crisis' remains unsolved and is mainly seen through economic, national identity or security threats by nation-states."*

**Financed:** Horizon 2020, Marie Skłodowska Curie Actions – European Joint Doctorate

**Coordinator:** [Prof. Martin Procházka](#) (FF UK)

**GEOCEP** is a collaborative project between universities worldwide that aims to tackle one of the most urgent social and political challenges of our time - **the environmental crisis caused by climate change**. It offers an innovative economic modelling framework that serves as a guide for transitioning towards a carbon-free economy. The project addresses various transition challenges, such as social and technological innovations, the need for flexibility, and the development of new business and service models. It brings together renowned universities and think tanks worldwide, linking the frontiers of climate change and energy economics with cutting-edge insights from natural and social sciences, resulting in comprehensive modelling.

**Financed:** Horizon 2020, Marie Skłodowska Curie Actions - Research and Innovation Staff Exchange  
**Coordinator:** Dr. Milan Ščasný (CŽP UK)

## Projects

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