Summer traineeship 2019 Erasmus + Charles University Prague Department of condensed matter physics





# Dávid Hovančík

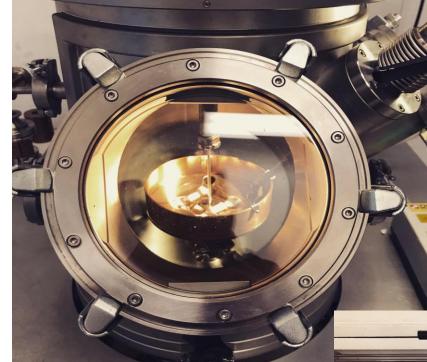
## Information about traineeship

- I participated traineeship on Charles University, Faculty of Mathematics and Physics, Department of condensed matter physics
- The traineeship length was 3 months
- During the traineeship I worked with uranium compounds like UIrGe or UCoGe
- I learned how prepare polycrystalline samples and then I learned how obtain information about structure by x-ray diffraction and chemical composition by electronic microscope
- I also measured the physical properties like heat capacity, resistivity and magnetization of prepared samples



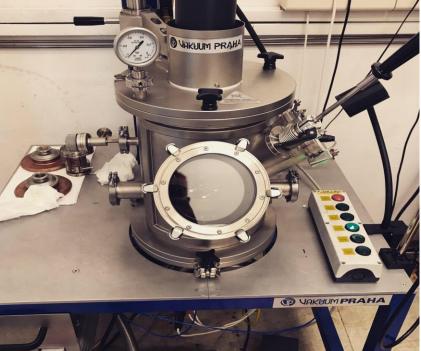


Cutting uranium





Melting in monoarc furnace with protected argon atmosphere



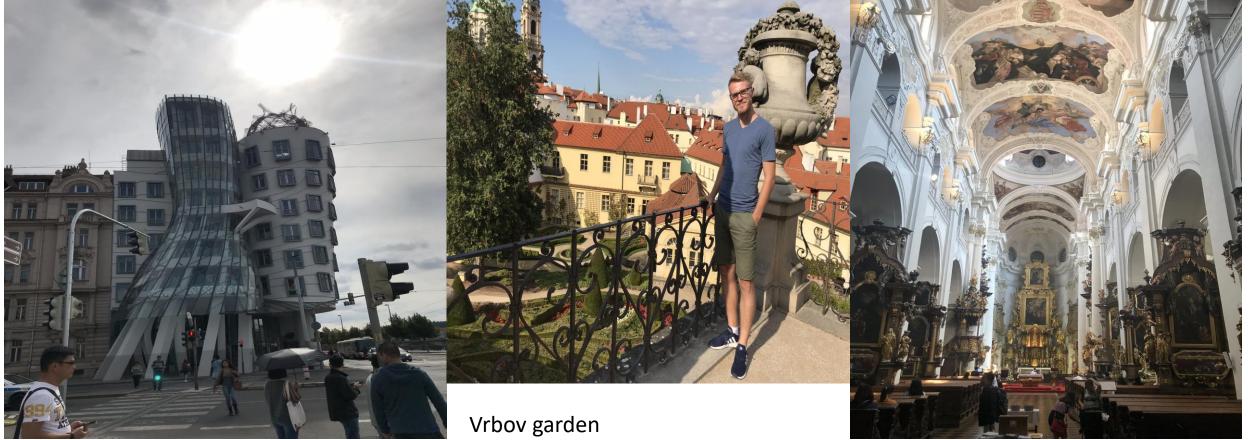
#### Chemical and structure analysis laboratory



Vacuum box with protect argon atmosphere

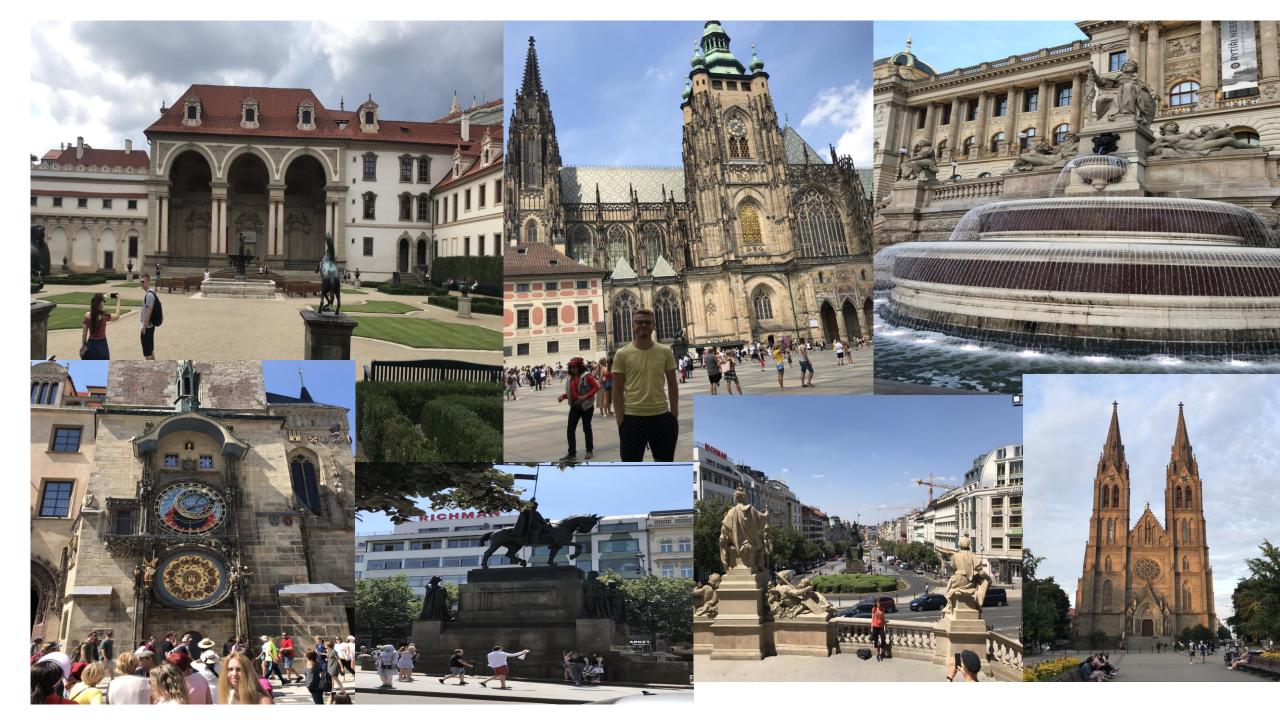
## Prague city of the culture

• I also visited many beautiful places in Prague

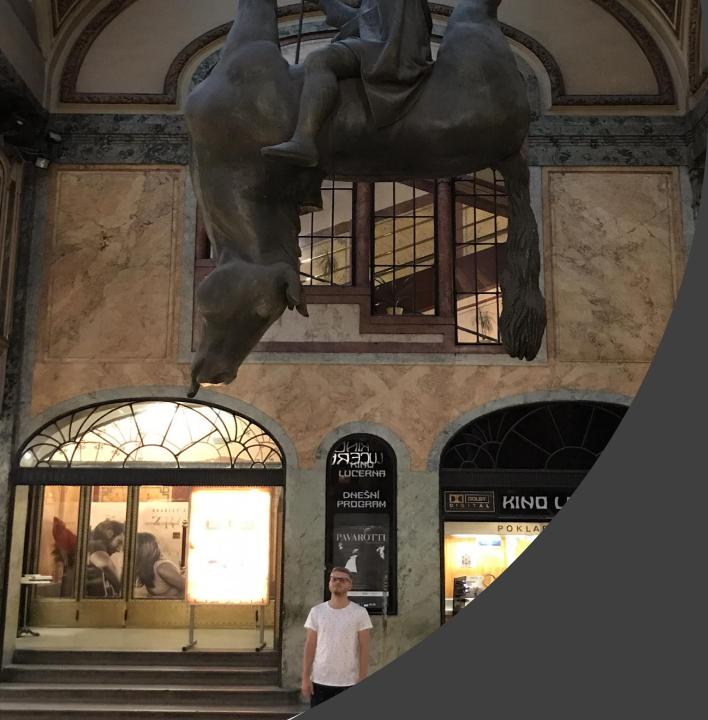


The dancing house

St. Martin's Church



- I obtained experience in prepare uranium compounds
- I learned the theoretical knowledge about problematics uranium compounds
- I acquire skills with structure analysis by x- ray power diffraction and also with electron microscope
- I obtained skill with measured physical properties
- I participate the international conference EHPRG (European High Pressure Research Group)
- In next time I will continue in work with uranium compounds and it will be also my master thesis



# Thank you for watching