



Comenius University in Bratislava Faculty of Mathematics, Physics and Informatics

THESIS ASSIGNMENT

Name and Surname: Dávid Barbora

Study programme: Computer Science (Single degree study, bachelor I. deg., full

time form)

Field of Study: Computer Science, Informatics

Type of Thesis: Bachelor's thesis

Language of Thesis: English **Secondary language:** Slovak

Title: Multiple Alignment and Visualization of Nanopore Sequencing Signals

Annotation: Nanopore sequencing produces signals based on the underlying reference DNA.

However, there is a large variability in these signals and at the same time, each position is typically read several times. The goal of the thesis is to develop practical multiple alignment methods for nanopore sequencing signals in order

to align them to the reference DNA and to visualize the results.

Supervisor: doc. Mgr. Tomáš Vinař, PhD.

Department: FMFI.KAI - Department of Applied Informatics

Head of prof. Ing. Igor Farkaš, Dr.

department:

Assigned: 31.10.2017

Approved: 31.10.2017 doc. RNDr. Daniel Olejár, PhD.

Guarantor of Study Programme

Student	Supervisor