



Palacký University Olomouc

Department/division: Department of Geoinformatics/Eye-tracking Laboratory

The Department of Geoinformatics is engaged in the wide area of cartographic research topics. Feeling the absence of objective evaluation of cartography products, since June 2011 we have started the research on cognitive visualization using eye-tracking. Research orientation of our group is the application of the eye-tracking technology and cognitive sciences in the field of evaluation and optimization of maps.

The team is formed by young scientists interested in different aspects of geographic information visualization. Research topics deal with cognition of maps complexity, 3D visualization, uncertainty, map elements and layout and other themes, leading us to the only aim – to do better maps.

Detailed information about our research is available at: <http://eyetracking.upol.cz/>.

Position title: Cognitive Cartography Specialist in the Eye-tracking Laboratory

Position purpose: To participate in research in the field of cognitive cartography, improve the trainee's knowledge and skills in experiment design, eye movement data recording and analysis of user interaction with maps and geospatial visualizations. Trainees will get acquainted with the problematics of eye movement recording, evaluation and optimization of maps and cognitive cartography in general.

Duties and responsibilities:

- Helping with eye movement data recording (SMI, Tobii, GazePoint, PupilLabs glasses)
- Statistical evaluation and visualization of recorded data
- Possibility to design, conduct and analyze own experiment

Qualifications

Field/s of study:

- Earth sciences (Geography, Geoinformatics)
- Psychology (Psychology, Cognitive science)

Level of study: master

Professional competences:

- Cartography and GIScience
- (Spatial) data analysis
- Psychology
- Cognitive science
- Statistics

Key competences/Language skills:

- English – A2-B2 – Elementary-Upper intermediate (Required)
- Czech – A2 – Elementary (Preferred)

Key competences/Computer skills:



- Word processing, Spreadsheets, Presentation – Independent user

Key competences/Other:

- Communication
- Critical and analytical thinking
- Planning and organizing
- Creative thinking
- Teamwork
- Intercultural perception
- Initiative
- Reliability

How to apply

Please send CV and cover letter (in English) to Stanislav Popelka, stanislav.popelka@upol.cz at least 2 months before planned traineeship start.

Facts

Economic sector: Tertiary education

Size: staff 2 001 to 5 000

Working language/s: Czech, English

Type of work placement: Traineeship

City/Country: Olomouc/the Czech Republic

Earliest start date: 16/05/2022

Latest start date: 01/06/2023

Duration: 3 months

Working hours: 35 hours/week

Remuneration:

Financial contribution: 0 EUR/month

Contribution in kind: none

Application

Required application documents: CV, cover letter (in English) to be sent to Stanislav Popelka, stanislav.popelka@upol.cz

Application deadline: at least 2 months before planned traineeship start