

Mladi raziskovalec: Rok Novak, mag. inž. teh. var. okolja

Delo: Karakterizacija bivanjskega okolja posameznika z uporabo senzorskih tehnologij (s poudarkom na senzorjih za kakovost zraka) v kombinaciji z eksternimi viri informacij podprtih z GIS (Geografski Informacijski Sistem) orodji in modelnimi pristopi ter izdelava orodja in metodologije za agregacijo in fuzijo podatkov kot podpora celoviti oceni okoljskega stresa. Rezultati dela bodo orodja, ki bodo med drugim omogočala avtomatizirano kalibracijo senzorskih sistemov v realnih pogojih, izdelavo ocene izpostavljenosti in vpliva na zdravje na nivoju posameznika; uporabniku prilagojene vizualizacije ter modelne napovedi pri upoštevanju različnih okoljskih (npr. klimatske spremembe) scenarijev in socio-ekonomskih parametrov.

Mentor: dr. David Kocman

Raziskovalni program in projekti povezani z delom MR:

- [ARRS P1-0143](#): Kroženje snovi v okolju, snovna bilanca in modeliranje okoljskih procesov ter ocena tveganja
- [ICARUS2020](#): Integrated Climate forcing and Air pollution Reduction in Urban Systems
- [CitieS-Health](#): Citizen Science for Urban Environment and Health
- [SMURBS](#): SMart URBan Solutions for air quality, disasters and city growth

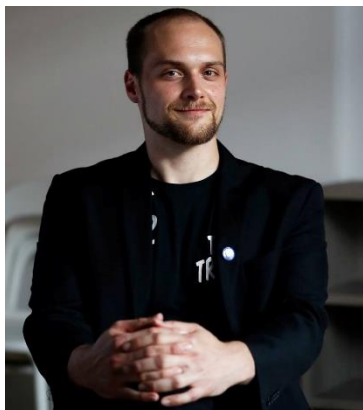
Young researcher: Rok Novak, mag. inž. teh. var. okolja

Work: Characterization of an individual's living environment using sensor technologies (with emphasis on air quality sensors) in combination with external sources of information supported by GIS (Geographic Information System) tools and modeling approaches, and the development of tools and methodologies for data aggregation and fusion to support integrated assessment of environmental pressures. The results of the work will be tools that will enable, among other things, automated calibration of sensor systems in real-world conditions, producing exposure estimates and health impacts at the individual level; user-friendly visualizations and model forecasts when considering different environmental (eg climate change) scenarios and socio-economic parameters.

Supervisor: dr. David Kocman

Research programme and projects related to work:

- [ARRS P1-0143](#): Kroženje snovi v okolju, snovna bilanca in modeliranje okoljskih procesov ter ocena tveganja
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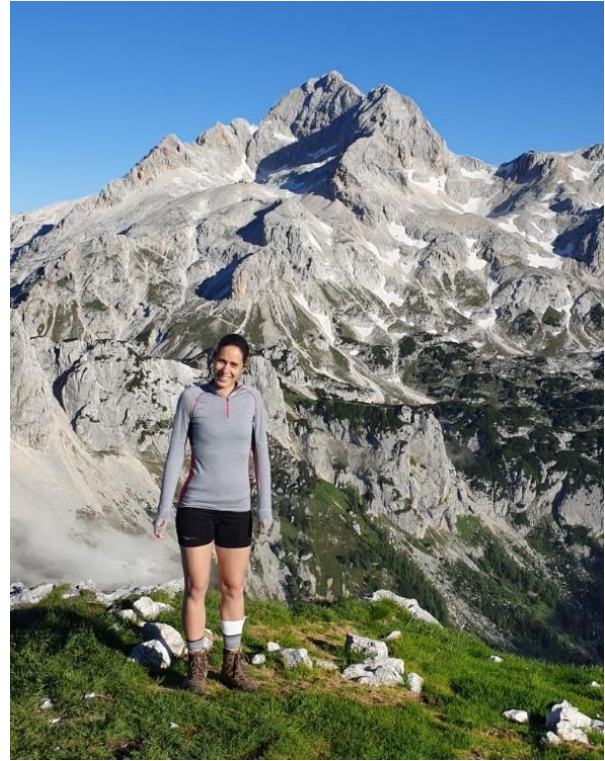
Mlada raziskovalka: Klara Nagode, mag. inž. geol.

Delo: Glavni namen raziskovalnega dela MR je poglobitev znanja o kroženju vode na območju ljubljanskih vodonosnikov ter ocena uporabnosti različnih geokemičnih parametrov, predvsem izotopske sestave vode, pri določanju izvora, kroženja in medsebojnih vplivov vode v urbanem okolju s posebnim poudarkom na raziskavah vode v vodovodnem sistemu.

Mentorica IJS: dr. Polona Vreča
Mentorica MPŠ: doc. dr. Tea Zuliani

Raziskovalni program in projekti povezani z delom MR:

- ARRS P1-0143: Kroženje snovi v okolju, snovna bilanca in modeliranje okoljskih procesov ter ocena tveganja
- IAEA CRP F33024: Use of Isotope Techniques for the Evaluation of Water Sources for Domestic Supply in Urban Areas
- ARRS N1-0054 – Prostorska porazdelitev izotopske sestave padavin v Evropi s poudarkom na območju med Jadranskim morjem in Panonsko nižino



Young researcher: Klara Nagode, mag. inž. geol.

Work: The main purpose of the research work is to deepen the knowledge about water cycling in the area of Ljubljana aquifers and to evaluate the usefulness of various geochemical parameters, especially the isotopic composition of water, in determining the origin, circulation and interactions of water in the urban environment, with a specific focus on water research in the water supply system.

Supervisor at IJS: dr. Polona Vreča
Supervisor at MPŠ: doc. dr. Tea Zuliani

Research programme and projects related to work:

- ARRS P1-0143: Kroženje snovi v okolju, snovna bilanca in modeliranje okoljskih procesov ter ocena tveganja / Cycling of substances in the environment, mass balances, modelling of environmental processes and risk assessment
- IAEA CRP F33024: Use of Isotope Techniques for the Evaluation of Water Sources for Domestic Supply in Urban Areas
- ARRS N1-0054 - Spatial distribution of water isotopes in precipitation in Europe with special focus on the transect from the Adriatic Coast to the Pannonian Plain