

Vladimir Ivanovic

Curriculum Vitæ

Education

2019 **MS**, *University of Montenegro*, Montenegro.

2017 **Spc**, *University of Graz*, Austria.

2016 **BSc**, *University of Montenegro*, Montenegro.

Employment

2020–present **Teaching Assistant**, *University of Montenegro*, Montenegro.

2017–2020 **Project(Big Data)**, *Crnogorski Telekom*, Montenegro.

Main areas of research

My scientific interest is in algebraic topology and modern algebra. I am interested in studying the topological invariants of a symplectic manifold with symmetries, namely, the equivariant cohomology when the manifold is acted on by a Lie group. Recently, I finished the master thesis [1] about cohomology ring on a special class of manifolds, viewed from either topological or algebraic point of view.

Results of master thesis are:

- describing generators of cohomology ring on quotient of complex projective space $\mathbb{C}P^n$ acted by torus T^n ;
- describing generators of cohomology ring on flag manifold acted by torus T^n using GKM theory;
- counting Betti numbers of cohomology ring on 2-Grassmannian manifold;

Besides theoretical mathematical interest, application of topology with statistic approach involved to Big Data contributes to the diversion of my interests.

Thesis

Theses are defended on University of Montenegro: www.ams.org/mathscinet

(with persistent identifier, e.g. DOI)

1. Ivanovic, V.: *Cohomology of a GKM graphs*, Master thesis, 47 (2019)
2. Ivanovic, V.: *Tensors in Riemannian geometry*, Specialization thesis, 45 (2017)

Additional research achievements and skills

1. Erasmus+ Grant for Western Balkan https://ec.europa.eu/programmes/erasmus-plus/sites/erasmusplus2/files/westernbalkans-regional-erasmusplus-2019_en.pdf
2. Intermediate – Upper skills in statistical computing software environment R
3. Advance-Upper skills in database language SQL, ETL tool Informatica