

Katja Berčič | Curriculum vitae

✉ katja.bercic@gmail.com • 📄 katja.not.si

Education

Doctoral programme in Mathematics

Faculty of Mathematics and Physics

University of Ljubljana

2010–2015

Bachelor programme in Mathematics

Faculty of Mathematics and Physics

University of Ljubljana

2003–2010

Academic experience

Postdoc

Maniplies and abstract polytopes with Professor Daniel Pellicer

CCM UNAM

October 2017–

Researcher

Group actions research

UP Fannit

October 2015–March 2016

Junior researcher

Group actions research with advisor Professor Primož Potočnik

IMFM and UP Fannit

October 2010–April 2014

Other work experience

Software engineer

Full stack development

Evolve d.o.o.

March 2017–September 2017

Software developer

Software platform development

Ibigo d.o.o.

September 2016–February 2017

Researcher

Work on a machine learning project

Jožef Stefan Institute

December 2015–June 2016

Conference talks

Towards databases of theorems

Software tools for mathematics (Morelia, Mexico)

January 2018

A repository of symmetric graphs

Grafy (Chlába, Slovakia)

June 2016

A repository of cubic vertex transitive graphs and its companion Sage package

SCDO (Queenstown, New Zealand)

February 2016

Arc-transitive graphs of order $2pq$

SODO (Queenstown, New Zealand)

February 2012

Other Mathematics Related Work.....

- DiscreteZOO project** **with Janoš Vidali**
developer (github.com/DiscreteZOO) *July 2015–*
- Member of organising committee** **CCM, UNAM Morelia**
SIGMAP *June 2018*
- Member of organising committee** **CCM and ENES, UNAM Morelia**
Software Tools for Mathematics *January 2018*
- Member of local organising committee** **IMFM, UL, UM, UP and Abelium**
8th Slovenian Conference on Graph Theory *June 2015*
- Teaching assistant** **UP Farnit**
Mathematical modelling, Mathematics in English *2012–2013*
- Member of organising committee** **UL FMF and UP Farnit**
Ljubljana-Leoben, graph theory seminar *September 2012*
- Help with organisation**
- ESSLII (FMF), August 2011
 - IMO 2006 (DMFA), July 2006

Publications and other products

- Katja Berčič.** *Constructions and catalogisation of symmetric graphs : PhD thesis (in slovenian).* PhD thesis, Faculty of Mathematics and Physics, University of Ljubljana, 2015.
- Katja Berčič and Mohsen Ghasemi.** *Tetravalent arc-transitive graphs of order twice a product of two primes.* *Discrete Math.*, 312(24):3643–3648, 2012.
- Primož Potočnik and Katja Berčič.** *Two-arc-transitive two-valent digraphs of certain orders.* *Ars Mathematica Contemporanea*, 11(1), 2015.

Computer science publications.....

- Katja Berčič, Gabriella Cattaneo, Flavio Fuart, Mario Karlovčec** Application of Advanced Analytical Techniques in Support to Assessment of the Phase Three of FI-PPP. *Conference on Data Mining and Data Warehouses (SiKDD 2016)*
- Evgenia Belyaeva, Jan Berčič, Katja Berčič, Flavio Fuart, Aljaž Košmerlj, Andrej Muhič, Aljoša Rehar, Jan Rupnik, Mitja Trampuš.** 3XL news : a cross-lingual news aggregator and reader. *The semantic web : latest advances and new domains : 12th European Semantic Web Conference, ESWC 2015 Portorož, Slovenia, May 31 - June 4, 2015 : proceedings*, (Lecture notes in computer science, ISSN 0302-9743, vol.9088). Springer, 2015

Other projects.....

- Katja Berčič and Janoš Vidali.** DiscreteZOO: A central repository of discrete objects with a website front-end and extensions for various software packages. *Work in progress*
- Project updates on ResearchGate (www.researchgate.net/project/Discrete-ZOO)
 - Code repository: (github.com/DiscreteZOO)
 - Website fronted demo: (www.discretezoo.xyz)
 - A sketch of project goals: (github.com/DiscreteZOO/DiscreteZOO-core/wiki/Project-goals)