

Katja Berčič | Curriculum vitae

✉ katja.bercic@fau.de • 🌐 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 Famnit

October 2015–March 2016

Junior researcher

Group actions research with advisor Professor Primož Potočnik

IMFM and UP Famnit

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

Talks

Conference talks.....

- Towards a fingerprint database of discrete objects**
International Congress on Mathematical Software (University of Notre Dame, USA) July 2018
- Interfaces for a repository of discrete mathematical objects**
International Congress on Mathematical Software (University of Notre Dame, USA) July 2018
- 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 talks.....

- Towards a database of theorems**
Coloquio (CCM, Morelia) November 2017

Other Mathematics Related Work

- DiscreteZOO project** with Janoš Vidali
developer (github.com/DiscreteZOO) July 2015–
- Member of organising committee** UP FAMNIT, Koper, Slovenia
Software Tools for Mathematics September 2018
- 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 Famnit
Mathematical modelling, Mathematics in English 2012–2013
- Member of organising committee** UL FMF and UP Famnit
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 and Janoš Vidali. *DiscreteZOO: Towards a fingerprint database of discrete objects.* 6th International Conference, South Bend, IN, USA, July 24-27, 2018, Proceedings.

Katja Berčič. *Constructions and catalogisation of symmetric graphs : PhD thesis (in slovenian).* PhD thesis, Faculty of Mathematics and Physics, University of Ljubljana, 2015.

Primož Potočnik and Katja Berčič. *Two-arc-transitive two-valent digraphs of certain orders.* *Ars Mathematica Contemporanea*, 11(1), 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.

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 products.....

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)