

Daniel T. Soukup

Mathematician :: Data Scientist

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Strengths

- Proficiency with Python [pandas] and Latex; basic knowledge of SQL.
- Practice with key Machine Learning [scikit-learn] and NLP techniques.
- Engaging communicator and public speaker (see research/teaching).
- Relentless problem solver; quick to adapt; dedicated team player.

Education



University of Toronto (Canada)

- 2015, PhD in Mathematics
- Ontario Trillium Scholarship



Eötvös Loránd University
(Budapest, Hungary)

- 2011, MSc in Mathematics
- 2009, BSc in Mathematics

- Online courses on applied text mining [NLTK, gensim, spaCy];
SQL [IBM Db2 Warehouse]; algorithms and data structures [CLRS].

Experience

Natural Language Processing

- Text analysis to study the geo-distribution of urban greening projects (data4good hackathon); cleaning and processing unstructured data; topic modelling and NER; visualization [seaborn, folium, networkx]. Click for project website and github.

Researcher @ U of Calgary and U of Vienna (2016 - present)

- Major EU funding for independent research projects (MSCA, €224,933)
- Research focus: local/global analysis of large graphs and digraphs; random combinatorial objects; Ramsey theory on algebraic and topological structures.
- Leading collaborative projects; conference organization.
- Plenary talks at major conferences; over 20 refereed publications in top international journals, highest cited paper at 14 (click for talks and papers).

Course Instructor (2014 - present)

- Teaching and coordinating large undergraduate and graduate courses.
- Daniel B. deLury Teaching Award; excellent student reviews.
- High school outreach activities in cryptography; student mentoring.