# Tomas Skacel, PhD

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## Education

**Northeastern University** Boston, USA

*Doctor of Philosophy in Mathematics* 2023

*Master of Science in Applied Mathematics* 2018

*Bachelor of Science in Mathematics* 2017

Graduate Coursework: Graph Theory, Probability Theory, Probabilistic Simulation, Applied Statistics, Random Matrix Theory, Differential Equations and Dynamical Systems, Optimization and Complexity, Analysis, Algebra, Topology, Geometry and others.

## Experience

**Northeastern University** Boston, USA

*Co-Instructor for Graduate and Undergraduate Graph Theory* Sept 2022 – Dec 2022

*Dialogue of Civilizations – Mathematical Heritage of Hungary Program Assistant* Summer 2022

*Instructor for Calculus and Differential Equations* Jan 2022 – May 2022

*Instructor for Introduction to Mathematical Reasoning* Jan 2019 – May 2019

*Teaching Assistant for Probability and Statistics, Calculus, Real Analysis, Group Theory, Differential Geometry, and others* Sept 2018 – May 2023

**Glencore International AG** Baar, Switzerland

*Intern at the Baar, Toronto, Montreal offices and Matagami mine* Summer 2017

- Toronto office (Trading and Logistics). Work included building a transportation network optimizer in Excel, analyzing transportation network logistics, and hedging on the London Metal Exchange.
- Montreal office (Geological and Mine Modeling teams). Work included mine simulation and geological modeling utilizing spatial statistics based on drill sampling.
- Baar office (Assets and Quality Control). Work included smelting process optimization and statistical analysis on shipping and financial data for quality control purposes.

## Publications & Conferences

**10th Slovenian Conference on Graph Theory** Kranjska Gora, Slovenia

*Presenting Attendee, Oral Presentation* 2023

**American Mathematical Society Conference at Tufts University** Boston, USA

*Presenting Attendee, Oral Presentation* 2022

**Skacel, Tomas**. *Skeletal Snub Polyhedra in Ordinary Space. PhD Thesis.*

Schulte, Egon and **Skacel, Tomas**. *Skeletal Snub Polyhedra in Ordinary Space I.* (Article in preparation)

**Skacel, Tomas**. *Skeletal Snub Polyhedra in Ordinary Space II.* (Article in preparation)

## Skills

Languages: Fluent in English, German & Czech, intermediate Italian (speak, read & write)

Computer: Proficient in Matlab (specifically in probabilistic modeling and Monte Carlo simulation), Wolfram Mathematica, LaTeX, Geogebra, MS Office.