

Curriculum Vitae

Personal information:

Patricija Šapokaitė

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Publications/preprints:

- Baronenas, Z., Manstavičius, E., & Sapokaite, P. (2020). A sharp inequality for the variance with respect to the Ewens sampling formula. *Lithuanian Mathematical Journal*, 61, 289 - 300.
- (*preprint*) Freij-Hollanti, R., Šapokaitė, P. (2024). *Matroidal Cycles and Hypergraph Families*. arXiv:2410.23932

Conference presentations:

- Finnish Mathematical days 2026 (Jyväskylä, Finland, 2026)
- 5th Pythagorean Conference (Kalamata, Greece, 2025)
- Combinatorics 24 conference (Carovigno (Br), Italy, 2024). Presentation title: *Matroidal Cycles and Hypergraph Families*

Participations:

- Connections Workshop: Extremal Combinatorics (Simons Laufer Mathematical Sciences Institute, Berkeley CA, USA, 2025)
- Introductory Workshop - Graph Theory: Extremal, Probabilistic and Structural (Simons Laufer Mathematical Sciences Institute, Berkeley CA, USA, 2025)
- Santander Workshop on Geometric and Algebraic Combinatorics (Universidad de Cantabria, 2024)
- Summer School in Graph Coloring (University of Illinois Urbana-Champaign, 2023)
- EXCILL IV Conference (University of Illinois Urbana-Champaign, 2023)
- Summer School in Algebraic Methods in Combinatorics (University of Illinois Urbana-Champaign, 2023)

Education:

2022-present – Aalto University (doctoral degree in Mathematics)

2019-2020 – University of Cambridge (Pure Mathematics, MAST)

2015-2019 – Vilnius University (Mathematics and Applications of Mathematics, BS, Cum Laude)

Employment History:

Doctoral Researcher at Aalto University (2022 – present):

I am a fourth year PhD candidate working on Graph Theory, Matroid Theory and Extremal Combinatorics.

Co-founder and CEO at “Matematikos akademija” (2020 – present):

Considering the low passing rate of the National high-school examination, my friend and I decided to open a mathematics school for high-school and university students. We offer individual and group tutoring and have specialized high school and higher level mathematics courses.

Analyst at “Besk” (2020 – 2021):

I was a business analyst of the cryptocurrency exchange platform ExMarkets. My main responsibilities were monthly client and profit analysis.

Junior Automation Engineer at “Laserpas” (2018 – 2019):

During the last year of my studies at Vilnius University, I worked at a company offering a range of powerline inspection analysis. My job consisted of automating some of these processes and various parts of the workflow in our office.

Temporary / non-qualified jobs (2013 – 2018):

While in high-school and during my bachelor studies, I had temporary/part-time jobs as a mathematics and physics tutor, seller, cleaner, waiter. I would also participate in the organisation of music festivals and local events, working as an assistant, merch seller, cloakroom attendant, and in other positions.

Tools and Languages:

- Python
- Google Analytics
- CSS, HTML, PHP
- Basics of C++, R, Java, wxMaxima, Matlab
- Basics of QGIS and MicroStation
- Microsoft Office package
- Ableton, Reaper, FL Studio

- Lithuanian (native proficiency)
- English (professional proficiency)
- French, Spanish, Finnish (basic proficiency)

- Driver’s license (categories AM, B1 and B)

Volunteering and Extracurricular Education:

I went to music and art schools, had about seven years of dancing classes and a lot of different activities during my school years. My great love for animals brought me to an animal shelter where I volunteered for about two years. I also participated in the preparation of a few summer festivals and did voice recordings at the Lithuanian Library for the Blind.

Hobbies:

Besides mathematics, I am interested in arts, philosophy, chess, and a lot of other subjects.