## Yuriy Tumarkin

Curriculum Vitae

Trinity College CB2 1TQ Cambridge, UK ⋈ yt354@cam.ac.uk

## Education

2021–2020 MMath, Part III of the Mathematical Tripos, University of Cambridge.

2018–2021 **Mathematics BA**, *Trinity College, University of Cambridge*, First Class Honours, 78%, rank 32/222..

Courses taken: First-year courses:	Second-year courses:	Third-year courses:
Groups	Groups, Rings & Modules	Algebraic Topology
Analysis I	Analysis & Topology	Riemann Surfaces
Numbers & Sets	Metric & Topological Spaces	Differential Geometry
Probability	Complex Analysis	Dynamical Systems
Vector Calculus	Geometry	Representation Theory
Vectors & Matrices	Linear Algebra	Algebraic Geometry
Differential Equations	Variational Principles	Galois Theory
Dynamics & Relativity	Mathematical Methods	Number Fields
	Markov Chains	Probability & Measure
	Statistics	Quantum Information & Computation
	Fluid Dynamics	Number Theory
	Electromagnetism	Graph Theory
	Quantum Mechanics	

2012–2018 **Secondary School**, *Durham Johnston Comprehensive School*, *Durham, UK*, A levels: 5 A\* (Maths, Further Maths, Physics, History, Russian), 3 A (Chemistry, French, German).

## Mathematical activities

Aug-Oct 2020	Summer research project supervised by Yuri Suris (TU Berlin), (with Michael
	Schmalian). We studied the geometry of discrete integrable systems generated by
	birational maps. Pre-print available at https://arxiv.org/abs/2106.14301.

- July 2020 Reading group, 'The Knot Book' by Colin Adams.
- Apr 2020 External secretary of Cambridge University Mathematical Society,
- Mar 2021 Responsible for organising weekly talks by invited speakers.
- Oct-Nov 2019 **STIMULUS**, teaching six year 5 students (10 years old) introductory combinatorics, Cambridge, UK.
  - Sep 2019 Reading group, 'Lectures in Discrete Geometry' by Jiří Matoušek.
  - July 2019 **Team Guide at IMO**, Bath, UK.
  - Dec 2018 **Talk at Durham Johnston School mathematical society**, "Cutting Sequences and Beatty's Theorem", based on Sergei Tabachnikov's "Geometry and Billiards".
  - 2016–2018 **Organiser of school mathematical society**, *Compiled problem sheets (available here)* and led weekly sessions, *Durham Johnston School*.

Participated in:

2017 **Modern Mathematics International Summer School for Students**, *Bremen, Germany*, incl. courses by Don Zagier, Bernd Sturmfels, Anton Zorich.

2016 **Contemporary Mathematics Summer School**, *Dubna, Russia*, incl. courses by Yulij Ilyashenko, Stanislav Smirnov, Victor Vassiliev, Alexey Sossinsky.

2015–2016 Summer schools and training camps organised by UKMT (UK Mathematics Trust), Leeds; Oxford; Cambridge.

2010–2017 Mathematical olympiads in the UK and Germany, Highest prizes 2010, 13-15, 17, full marks 2015, 17.

Skills

Languages English, Russian (Native), German (approx C1), French (approx C1).

Programming Sage, Python, LaTeX, Geogebra

and software

Hobbies

Music Alto Saxophone: ABRSM Grade 8.

Sports Ultimate Frisbee (Cambridge University team), Badminton, Table tennis.

Personal Info

Date of birth 21/05/2000.

Citizenship Russia, UK.

References

Yuri Suris Supervisor of 2020 summer research project, suris@math.tu-berlin.de.

(TU Berlin)

**Eric Lauga** Director of studies at Trinity, e.lauga@damtp.cam.ac.uk.

(Cambridge)