Yuriy Tumarkin

Curriculum Vitae

Trinity College
CB2 1TQ
Cambridge, UK
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Education

2018–2021   **Mathematics BA**, *Trinity College, University of Cambridge*,
First Year: Rank 9/232, 91%, class I.
Second Year: Exams cancelled.

Courses taken (by the end of 2020-2021 academic year):

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	Algebraic Geometry
Vector Calculus	Geometry	Representation Theory
Vectors & Matrices	Linear Algebra	Dynamical Systems
Differential Equations	Variational Principles	Linear Analysis
Dynamics & Relativity	Mathematical Methods	Probability & Measure
	Markov Chains	Topics in Analysis
	Statistics	Galois Theory
	Fluid Dynamics	Number Fields
	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, generalised one of the results of* https://arxiv.org/abs/2008.08308.

July 2020   **Reading group**, *'The Knot Book' by Colin Adams*.

Apr 2020 -
Mar 2021   **External secretary of Cambridge University Mathematical Society**, *Responsible for organising weekly talks by invited speakers*.

Oct-Nov 2019   **STIMULUS**, *teaching six year 5 students (10 years old) introductory combinatorics*, Cambridge, UK.

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 and software	Sage, Python, LaTeX, Geogebra

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 (TU Berlin)	Supervisor of 2020 summer research project, *suris@math.tu-berlin.de*.
Eric Lauga (Cambridge)	Director of studies at Trinity, *e.lauga@damtp.cam.ac.uk*.