Yuriy Tumarkin

Curriculum Vitae

Institut für Mathematik
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Education

2021–2022	**MMath**, *Part III of the Mathematical Tripos, University of Cambridge*, Distinction, 86%.
2018–2021	**Mathematics B.A.**, *Trinity College, University of Cambridge*, Third year: First Class Honours, 78%. Second year: Exams cancelled due to Covid-19. First year: First Class Honours, 91%.
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).

Publications

[1]   (With Misha Schmalian and Yuri B. Suris). "How one can repair non-integrable Kahan discretizations. II. A planar system with invariant curves of degree 6." *Mathematical Physics, Analysis and Geometry* 24 (2021). arXiv: 2106.14301.

Mathematical activities

Aug-Sep 2021	**Mathematical essay "Groups Acting on Trees"**, *Set by Henry Wilton (Cambridge), an exposition of Bass-Serre theory, available <u>here</u>.*
Aug-Oct 2020	**Summer research project supervised by Yuri Suris (TU Berlin)**, *(with Misha Schmalian). We studied the geometry of discrete integrable systems generated by birational maps.*
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**, *I taught 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 <u>here</u>) and led weekly sessions, Durham Johnston School.*

Summer schools and camps

2017	**Modern Mathematics International Summer School for Students**, *Bremen, Germany*, incl. courses by Anke Pohl, Don Zagier, Anton Zorich.
2016	**Contemporary Mathematics Summer School**, *Dubna, Russia*, incl. courses by Yulij Ilyashenko, Stanislav Smirnov, Victor Vassiliev.
2015–2016	**Summer schools and training camps organised by UKMT (UK Mathematics Trust)**, *Leeds; Oxford; Cambridge.*

Awards and prizes

2021	**Rouse Ball Mathematics Prize**, *For the essay "Groups acting on trees".*
2021–22	**Trinity College Senior Scholarship**.
2019–20	**Trinity College Junior Scholarship**.
2019, 2021, 2022	**Trinity College Examination Prizes**.
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

I play ultimate frisbee, as well as badminton and table tennis. I also enjoy playing the saxophone, reading and hiking.

References

Henry Wilton (Cambridge)	College supervisor, lecturer, essay supervisor, h.wilton@maths.cam.ac.uk.
Yuri B. Suris (TU Berlin)	Supervisor of summer research project, suris@math.tu-berlin.de.
Tom Fisher (Cambridge)	Director of studies at Trinity, t.a.fisher@dpmms.cam.ac.uk.