Segev Gonen Cohen

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EDUCATION

| October 2023 - Present | PhD in Mathematics, ETH Zürich |
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| | Under the supervision of Dr. M. Akka and Prof. M. Einsiedler |
| September 2021 - August 2023 | Masters in MATHEMATICS, ETH Zürich (Grade: 5.91) |
| | Master's thesis under the supervision of Prof. M. Burger |
| | Title: Algebraic Certificates for Positivity and Kazhdan's Property (T) |
| | Semester paper under the supervision of Dr. M. Akka |
| | Title: Quantitative estimates in Oppenheim's conjecture |
| October 2018 - July 2021 | Bachelors in MATHEMATICS, Pembroke College, University of Cambridge |
| | First class in first year of the degree |
| | Options include independent computational research projects in Mathematics (CATAM) |
| 2011 - 2018 | JFS School, Harrow, London |
| | A-level Maths, Further Maths, Further Additional Maths, Physics, Chemistry, Biology (6A*) |
| | STEP II (S), III (1) |
| | GCSE (11A* + 1A) including Maths (A*), English Language (A*), Triple Science (A*A*A*) |

PUBLICATIONS

Impact Hamiltonian systems and polygonal billiards (with L. Becker, S. Elliott, B. Firester, M. Pnueli, V. Rom-Kedar) [arXiv] in the "Proceedings of the MSRI 2018 Fall semester on Hamiltonian Systems"

TALKS

| March 2024 | <i>What is Hilbert's 17th Problem?</i> at the Zürich Graduate Colloquium , Universität Zürich, Switzerland; |
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| February 2024 | 'Bounded Generation of linear groups by diagonalisable elements' at the Topology and Geometric Group Theory Research Seminar, Karslruhe Institute of Technology, Ger- |
| May 2023 | many; 'Using finite groups to understand infinite ones (an introduction to Geometric Group Theory)' at ZUCCMAP , ETH Zürich, Switzerland. |

TEACHING

FRÜHJAHRSSEMESTER '24Organiser for sudent seminar Topics in DynamicsHERBSTSEMESTER '22Teaching Assistant for Linear Algebra I

Also organised reading groups/seminars about the *Brown-Fisher-Hurtado* work on the Zimmer Programme (HERBSTEMESTER '23) and the *Einsiedler-Katok-Lindenstrauss* work on Littlewood's conjecture (FRÜHJAHRSSEMESTER '22).

MISCELLANY

| Jan 2023 - current | Contact point as part of the VSETH student helpdesk; |
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| Oct 2022 - Sept 2023 | President of the Masters and Internationals Committee as part of the Maths and |
| | Physics student association at ETH Zürich; |
| DECEMBER 2022 | VMP Assistenaward, for my activities as Teaching Assistant in Linear Algebra I; |
| March 2019, 2020 | Full Blue, the highest sporting honour in Cambridge; |
| March 2019, 2020 | Ginsberg Prize from Pembroke College; |
| JULY 2019 | Peter May Prize for University Sports and Academics; |
| JULY 2019 | College scholarship for performance in examinations; |
| DECEMBER 2018 | Bar Ilan University Prize for Outstanding Achievement in A-levels. |
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