

BIOGRAPHICAL SKETCH:¹ Alex Kontorovich

(a) Professional Preparation:

Princeton University	Mathematics (Magna Cum Laude)	B.A. 2002
Columbia University	Mathematics	Ph.D. 2007

(b) Appointments:

2023 –	Distinguished Professor	Rutgers University, NJ
2017 – 23	Professor	Rutgers University, NJ
2014 – 17	Associate Professor	Rutgers University, NJ
2014	Associate Professor	Yale University, CT
2011 – 14	Assistant Professor	Yale University, CT
2010 – 11	Assistant Professor	Stony Brook University, NY
2007 – 10	Tamarkin Assistant Professor	Brown University, RI

(c) Temporary Appointments:

2020 – 21	Distinguished Visiting Professor for the Public Dissemination of Mathematics	National Museum of Mathematics (MoMath), NYC
2017 – 18	von Neumann Fellow	IAS, Princeton, NJ
Spring 2016	Member	IAS, Princeton, NJ
2013 – 14	Member	IAS, Princeton, NJ
Sept 2013	Visiting Scholar	Harvard, MA
2009 – 10	Member	IAS, Princeton, NJ
March 2009	Visiting Scholar	ETH, Zurich
2008 – 09	Visiting Scholar	Columbia, NYC

(d) Editorial/Advisory (Selected):

2023 –	(Founding) Managing Editor	Journal of the Association for Mathematical Research
2022 – 25	Conant Prize Committee	American Mathematical Society
2019 – 22	Editor-in-Chief	Experimental Mathematics (T&F)
2021 –	Board of Directors	Association for Mathematical Research
2018 –	Dean of Academic Content	MoMath, NYC
2017 –	Scientific Board Member	Quanta Magazine, Simons Foundation
2020 – 23	Scientific Review Panel	Pacific Institute for the Mathematical Sciences
2019 – 21	Program Committee	AMS Eastern Section
2017 – 19	Scientific Committee	Journées Arithmétiques 2019

(e) Awards/Honors (Selected):

2022	Telly Award for “Riemann Hypothesis” video
2020	AMS Rutgers Student Chapter Award for Faculty Mentorship
2017 – 18	Simons Foundation Fellow
2017	Elected Fellow of the American Mathematical Society
2017	Kavli Fellow of the US National Academy of Sciences
2014	Levi L. Conant Prize of the American Mathematical Society
2013 – 16	Alfred P. Sloan Research Fellow

¹Last updated: June, 2023

(f) Grant Support:

2023 – 26	NSF grant DMS-2302641	\$350K
2021 – 25	BSF grant 2020119 (with Ghosh, Mieri, Sarnak)	\$120K
2018 – 23	NSF Grant DMS-1802119	\$550K
2015 – 19	BSF grant 2014099 (with Fuchs, Lubotzky, Mieri, Sarnak)	\$100K
2014 – 17	NSF FRG Grant (with Long, Lubotzky, Reid) DMS-1463940	\$1.1M
2013 – 18	NSF CAREER Grant, DMS-1254788, DMS-1455705	\$450K
2010 – 13	NSF Grant, DMS-1064214	\$120K
2008 – 10	NSF Postdoctoral Fellow, Grant DMS-0802998	\$108K

(g) Publications: Available at <http://math.rutgers.edu/~alexk/research.html>

(h) Advisory:

• **PhD Thesis Supervisor to:**

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| 1. Ilya Vinogradov (Princeton 2012) | 2. Xin Zhang (Stony Brook 2014) |
| 3. Shinnyih Huang (Yale 2015) | 4. Liyang Zhang (Yale 2017) |
| 5. Max Ehrman (Yale 2017) | 6. Arseniy Sheydvasser (Yale 2018) |
| 7. Katie McKeon (Rutgers 2018) | 8. Brooke Logan (Rutgers 2021) |
| 9. Alex Karlovitz (Rutgers 2022) | 10. Edna Jones (Rutgers 2022) |
| 11. André Hernandez-Espiet (Rutgers current) | |

• **Postdoctoral Advisor to:**

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| 1. Peng Zhao (Yale 2012-15) | 2. Kei Nakamura (Rutgers 2015-18) |
| 3. Claire Burrin (Rutgers 2016-20) | 4. Amita Malik (Rutgers 2017-20) |
| 5. Alice Mark (Rutgers 2018-19) | 6. Alex Walker (Rutgers 2018-21) |
| 7. Chris Lutsko (Rutgers 2020-23) | 8. Will Chen (Rutgers 2022-23) |

• **DIMACS REU Advisor:** summers 2015, 2018, 2020, and 2022.

17 undergraduates students total, 2 Goldwater Scholarships, 1 Goldwater Honorable Mention, 1 NSF GRF, etc; 11 continued to STEM PhD programs.

(i) Recent Synergistic Activities (Selected):

• Co-organizer:

- **ICERM** workshop on Computation with Infinite Linear Groups, Jun 2022;
- **AIM** workshop on Arithmetic Hyperbolic Reflective Lattices, March 2022;
- **Vinberg Distinguished Lectures** <https://amathr.org/vinberg/> 2021–;
- **Oberwolfach** Arbeitsgemeinschaft on Thin Groups, Oct 2021;
- **ICERM** workshop on “Discrete Subgroups of Lie Groups”, June 2021;
- **AIM** workshop on Arithmetic Hyperbolic Reflective Lattices, Dec 2020;
- **ICERM** workshop on Homogeneous Dynamics, June 2020;
- **Rice** “Thin Groups in Geometry and Topology,” May 2018;
- **Yale** “Groups, Geometry and Number Theory,” Feb 2017;
- **IAS**, Princeton, “Thin Groups and Super Approximation,” March 2016.

• 250+ lectures since 2007 at major national/international conferences/seminars

• Outreach YouTube videos with: **Quanta Magazine**, **Veritasium**, and **3blue1brown**. Over 100M views total, videos available at: <http://math.rutgers.edu/~alexk/outreach.html>

• Contributor to Lean’s mathlib library