


Efim Rozenbaum

PhD in quantum physics

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 [linkedin.com/in/efimrozenbaum](https://www.linkedin.com/in/efimrozenbaum)

Skills

High-performance computing:
OpenMP, MPI; GPU-based computing

Programming: Fortran, C, Matlab;
basics of Mathematica, Maple,
Python

Design:
Image – GIMP, ImageMagick
Video – Sony Vegas Movie Studio

Other: LaTeX, MS Office,
Adobe Acrobat

Languages: English, Russian

Education

08/2014 - 01/2020
Ph.D. in physics | GPA: 4.0/4.0
University of Maryland, College Park

09/2012 - 06/2014
M.Sc. in physics | GPA: 5.0/5.0
St. Petersburg State University
Diploma with distinction

09/2008 - 06/2012
B.Sc. in physics | GPA: 4.97/5.0
St. Petersburg State University
Diploma with distinction

Mentoring

Mentor of two undergraduate
students at SPbSU

Mentor of two research interns and
two junior graduate students at UMD

Extra-Curricular

Scientific Olympiad prize winner

Olympiad jury member

Math and Physics “fight” competitor

Debate competitor and judge

Ballroom and social dancer

Experience training and performing
worldwide as a professional violinist

Experience training as a pilot

Experience

Since 04/2020	Consultant	Boston Consulting Group, Washington D.C. area
06/2019	Bridge to BCG 2019	Boston Consulting Group, Boston, MA
08/2014 - 01/2020	Independent JQI graduate fellow and research assistant	Joint Quantum Institute and Condensed Matter Theory Center Physics Department, University of Maryland, College Park, MD

Research in quantum chaos and condensed matter theory

- found new regimes in driven out-of-equilibrium quantum dynamics
- introduced and demonstrated many-body dynamical localization
- developed novel chaos-based quantum tools

03/2012 - 12/2013	Research engineer, laboratory of atomic and molecular theory	
	– developed an improved approach to study relativistic quantum dynamics of heavy ions in strong laser fields	
	– quantified particle-pair production from vacuum in this setup	St. Petersburg State University, Russia

- Scientific and general presentation skills
– gave numerous talks; took a presentation course at GSI, Germany
- Scientific writing and publishing skills
– authored 7 papers; participated in a Nature publishing workshop
- Image- and video-design experience
– designed scientific and general-purpose images and videos
- Served as a scientific journal referee: – Annals of Physics (Elsevier)
– Physical Review Letters; Phys. Rev. B and E (APS)
– International Journal of Theoretical Physics (Springer)
– Chaos: An Interdisciplinary Journal of Nonlinear Science (AIP)
- Collaborations: Brookhaven National Lab, Georgia Tech, KITP,
Simons Center (Stony Brook), Technion (Israel), CUNY, Lille
University (France), UCSC, Kansas University, GSI (Germany)

In press

- “Quantum Gases Won’t Take the Heat” by Bailey Bedford
- “Crossing the Quantum-Chaotic Divide” by Chris Cesare

Select publications

2020	E. B. Rozenbaum, L. A. Bunimovich, and V. Galitski Phys. Rev. Lett. 125, 014101
2019	C. Rylands, E. B. Rozenbaum, V. Galitski, and R. Konik Phys. Rev. Lett. 124, 155302
2018	E. B. Rozenbaum, S. Ganeshan, and V. Galitski Phys. Rev. B 100, 035112
2017	E. B. Rozenbaum et al. Phys. Rev. Lett. 118, 086801
2016	E. B. Rozenbaum and V. Galitski Phys. Rev. B 95, 064303
2014	E. B. Rozenbaum et al. Phys. Rev. A 89, 012514

Select conferences

2019	Many-Body Quantum Chaos	Aspen, CO
2018	Chaos, quantum chaos, and more	Cuernavaca, Morelos, Mexico
2018	Non-thermal Quantum Systems	Boston University, Boston, MA
2016	Designer Quantum Systems Out of Equilibrium	Santa Barbara, CA
2015	Quantum Correlated Matter and Chaos	Dresden, Germany