

# OFER SHWARTZ

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## EDUCATION

- 2015-ongoing      Ph.D. in Mathematics,  
Weizmann Institute of Science, Rehovot, Israel.  
Adviser: Prof. Omri Sarig.  
Research area: Ergodic theory and dynamical systems.
- 2012-2015        M.Sc. in Mathematics and Computer Science,  
Weizmann Institute of Science, Rehovot, Israel.  
Adviser: Prof. Boaz Nadler.  
Research area: High dimensional statistics and machine learning.
- 2008-2012        B.Sc. in Mathematics and Computer Science,  
Technion - Israel Institute of Technology, Haifa, Israel.
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## TEACHING EXPERIENCE

Teaching assistant in the following courses:

- 2016              Introduction to Algorithms, IDC Herzliya.
- 2014              Abstract Algebra, Weizmann Institute of Science.
- 2012              Calculus 2, Technion.
- 2011              Calculus 1, Technion.
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## PUBLICATIONS

- Thermodynamic Formalism for Transient Potential Functions, *Communications in Mathematical Physics*, 2019.
  - Roy's largest root under rank-one alternatives: The complex valued case and applications, with Boaz Nadler and Prathapasinghe Dharmawansa, *the Journal of Multivariate Analysis*, 2019.
  - Detecting the large entries of a sparse covariance matrix in sub-quadratic time, with Boaz Nadler, *Information and Inference: A Journal of the IMA*, 2016.
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## HONOR AND AWARDS

- 2015              The Dean's Prize for MSc Students, Weizmann Institute of Science.

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## INVITED TALKS

- November 2019    Groups, Dynamics and Related Topics, Technion, Israel.
- July 2019        Thermodynamic Formalism: Ergodic Theory and Geometry, University of Warwick, UK.
- December 2018   Dynamics and Probability, Hebrew University, Israel.
- May 2018        Israel Mathematical Union meeting, Technion, Israel.
- February 2018   Meeting on Infinite Ergodic Theory and Related Fields, Hebrew University, Israel.
- November 2017   Geometry and Topology Seminar, University of Sydney, Australia.
- May 2017        Students Probability Day VI, Weizmann Institute of Science, Israel.