

Curriculum Vitae

William (Will) Rosenbaum

Max Planck Institute for Informatics
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- EMPLOYMENT
- ◇ **Max Planck Institute for Informatics** August 2018–present
Postdoctoral Researcher, Algorithms and Complexity Group
 - ◇ **Tel Aviv University** August 2016–July 2018
Postdoctoral Fellow, School of Electrical Engineering
 - ◇ **University of California, Los Angeles** Spring 2016
Assistant Adjunct Professor, Department of Mathematics

- EDUCATION
- ◇ **University of California, Los Angeles, CA**
Ph.D. in Mathematics, Winter 2016
M.A. in Mathematics, Spring 2011
Dissertation: *Distributed Almost Stable Matchings*
Adviser: Rafail Ostrovsky
 - ◇ **Reed College, Portland, OR**
B.A. in Mathematics, Spring 2009
Thesis: *Analysis on Circles: A Modern View of Fourier Series*
Adviser: Jerry Shurman

- ACADEMIC INTERESTS
- ◇ **Theoretical Computer Science:** Distributed Computing; Computational Complexity; Algorithmic Game Theory
 - ◇ **Mathematics:** Discrete Math/Combinatorics; Graph Theory; Probability

- SELECTED AWARDS & GRANTS
- ◇ **Postdoctoral Scholarship** (~ 18,000 EUR)
Tel Aviv University, 2016–2017
Scholarship awarded to at most 20 postdocs university-wide
 - ◇ **Teaching Assistant Consultantship**
Department of Mathematics, UCLA, Fall 2015
 - ◇ **Graduate Student Instructorship**
Department of Mathematics, UCLA, 2014
 - ◇ **Robert Sorgenfrey Distinguished Teaching Award**
Department of Mathematics, UCLA, 2013
 - ◇ **Phi Beta Kappa**
Reed College, 2009

- SELECTED PUBLICATIONS
- ◇ *A Stable Marriage Requires Communication* (with Yannai Gonczarowski, Noam Nisan, and Rafail Ostrovsky), *Games and Economic Behavior*, 2019. (**Invited**)
 - ◇ *With Great Speed Come Small Buffers: Space-Bandwidth Tradeoffs for Routing* (with Avery Miller and Boaz Patt-Shamir), *ACM Principles of Distributed Computing (PODC)*, 2019.
 - ◇ *Fault Tolerant Gradient Clock Synchronization* (with Johannes Bund and Christoph Lenzen), *ACM Principles of Distributed Computing (PODC)*, 2019.
 - ◇ *The Arboricity Captures the Complexity of Sampling Edges* (with Talya Eden and Dana Ron), *International Colloquium on Automata, Languages, and Programming (ICALP)*, 2019.
 - ◇ *Space-Optimal Packet Routing on Trees* (with Boaz Patt-Shamir), *IEEE Conference on Computer Communications (INFOCOM)*, 2019.
 - ◇ *The Space Requirement of Local Forwarding on Acyclic Networks*, *ACM Principles of Distributed Computing (PODC)*, 2017.
 - ◇ *Fast Distributed Almost Stable Matchings* (with Rafail Ostrovsky), *ACM Principles of Distributed Computing (PODC)*, 2015.
- TEACHING EXPERIENCE
- ◇ **Instructor** UCLA & Max Planck Institute for Informatics (Since Sept. 2014)
 - Undergraduate courses: *Honors Multivariable Differential Calculus*, *Intermediate Programming (C++)*
 - Graduate courses: *Algorithms on Directed Graphs*, *Teaching College Mathematics*
 - ◇ **Assistant Instructor**, Los Angeles Math Circle (Sept. 2014 – June 2015)
 - ◇ **Teaching Assistant**, Math Department, UCLA (September 2009 – June 2015)
 - 20+ undergraduate courses, including calculus, programming, real analysis, linear algebra, and game theory
 - Average teaching evaluation: 8.7 / 9
 - ◇ **Teaching Assistant** *Introductory Physics*, Reed College (August 2007 – May 2009)
 - ◇ **Tutor** Drop-in tutoring at UCLA and Reed College (Sept. 2007 – March 2015)
- SERVICE
- ◇ **Organizer** 20th Max Planck Advanced Course on the Foundations of Computer Science (ADFOCS), Saarbrücken, Germany, August 2019.
 - ◇ **Organizer** Network Algorithms Seminar, Department of Electrical Engineering, Tel Aviv University, 2017/2018 academic year.
 - ◇ **Peer reviewer** 30+ articles reviewed for various journals and conferences.