

Name: Shay Mozes

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CURRICULUM VITAE

1. Personal Details

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2. Higher Education

A. Undergraduate and Graduate Studies

Period of Study	Name of Institution and Department	Degree	Year of Approval of Degree
2007-2012	Brown University	Ph.D. in Computer Science	2013
2007-2008	Brown University	M.Sc. in Computer Science	2008
2002-2004	Tel-Aviv University	M.Sc. in Physics (Quantum information theory)	2005
1999-2002	The Hebrew University, Jerusalem	B.Sc. in Physics and Computer Science (Summa cum laude)	2003

B. Post-Doctoral Studies

Period of Study	Name of Institution, Department and Host	Degree	Year of Completion
2012-2013	Massachusetts Institute of Technology, Department of Mathematics and Computer Science and Artificial Intelligence Lab (CSAIL) Prof. Jonathan Kelner	Postdoctoral Associate	2013

3. Academic Ranks and Tenure in Institutes of Higher Education

Dates	Name of Institution and Department	Rank/Position
2025-today	Reichman University Efi Arazi School of Computer Science	Professor (tenured)
2019-2025	IDC Herzliya / Reichman University Efi Arazi School of Computer Science	Associate Professor (tenured)
2013-2018	IDC Herzliya	Senior Lecturer

4. Offices in Academic Administration

Dates	Name of Institution and Department	Rank/Position
2022-2024	Reichman University Efi Arazi School of Computer Science	Vice dean
2014-today	Reichman University Efi Arazi School of Computer Science	Head of Keren-Or program

5. Scholarly Positions and Activities outside the Institution

a. Conference Paper Reviews:

SODA 2026, FOCS 2025, STOC2025, SODA 2025, ESA 2024, ICALP 2024, SODA 2024, FOCS 2023, STACS 2023, ESA 2023, STOC 2023, ICALP 2023, SODA 2023, CSR 2022, SODA 2022, SODA 2022, FOCS 2021, CSR 2021, STOC 2021, SODA 2021, ICALP 2020, STOC 2020, SoCG 2020, ITCS 2020, SODA 2020, FOCS 2019, STOC 2019, SODA 2019, FOCS 2018, ICALP 2018, SoCG 2018, LATIN 2018, SODA 2018, ESA 2017, FOCS 2017, ICALP 2017, STOC 2016, IWOC 2016, PODC 2016, CPM 2016, LATIN 2016, SODA 2016, ISAAC 2015, FOCS 2015, WG 2015, ESA 2015, STOC 2015, ISAAC 2013, ESA 2013, ICALP 2013, SODA 2013, FOCS 2012, LATIN 2012, ICALP 2012, CPM 2011, STACS 2011, FOCS 2010, ICALP 2010, SODA 2010, FOCS 2009, ICALP 2008.

b. Journal Paper Reviews:

ACM Transactions on Algorithms, Algorithmica, Information Processing Letters, Networks, Quantum Information and Computation.

c. Review of Research Grants:

Poland National Science Center (2019)
Natural Sciences and Engineering Research Council of Canada (2017)

d. Membership in Professional Societies:

ACM (since 2012),
EACTS (2023, 2017)

6. Participation in Scholarly Conferences

a. Active Participation

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
2023	ESA	Amsterdam, Netherlands	What Else Can Voronoi Diagrams Do for Diameter in Planar Graphs?	Speaker
2022	Dagstuhl Seminar 22461	Dagstuhl, Germany	Dynamic Graph Algorithms	Participant (by invitation)
2021	ISAAC	Fukuoka, Japan	Truly Subquadratic Exact Distance Oracles with Constant Query Time for Planar Graphs.	Speaker (online)
2019	ICERM workshop on Data Science in Low-Dimensional Spaces	Providence RI, USA	Almost Optimal Distance Oracles for Planar Graphs	Invited talk
2018	SODA	New Orleans LA, USA	Voronoi Diagrams on Planar Graphs, and Computing the Diameter in Deterministic $O(n^{5/3})$ time	Speaker
2018	SODA	New Orleans LA, USA	Near-Optimal Compression for the Planar Graph Metric	Speaker
2016	Dagstuhl Seminar 16221	Dagstuhl, Germany	Algorithms for Optimization Problems in Planar Graphs	Participant (by invitation) / Speaker
2013	STOC	Palo Alto CA, USA	Structured Recursive Separator Decompositions for Planar Graphs in Linear Time	Speaker
2013	Dagstuhl Seminar 13421	Dagstuhl, Germany	Algorithms for Optimization Problems in Planar Graphs	Participant (by invitation) / Speaker
2012	SODA	Kyoto, Japan	Submatrix Maximum Queries in Monge Matrices and Monge Partial Matrices, and Their Applications	Speaker
2011	FOCS	Palm Springs CA, USA	Multiple-Source Multiple-Sink Maximum Flow in Directed	Speaker

			Planar Graphs in Near-Linear Time	
2011	WADS	New York NY, USA	Multiple-Source Single-Sink Maximum Flow in Directed Planar Graphs in $O(\text{diameter} \cdot n \log n)$ -Time	Speaker
2009	SODA	New York NY, USA	<i>Shortest Paths in Directed Planar Graphs with Negative Lengths: a Linear-Space $O(n \log^2 n)$-Time Algorithm</i>	Speaker
2008	SODA	San Francisco CA, USA	<i>Finding an Optimal Tree Searching Strategy in Linear Time</i>	Speaker
2008	CPM	London Ontario, Canada	Speeding Up HMM Decoding and Training by Exploiting Sequence Repetitions	Speaker

b. Organization of Conferences or Sessions

Date	Name of Conference	Place of Conference	Subject of Conference/ Role at Conference/ Comments	Role
2025	Symposium on Discrete Algorithms (SODA)	New Orleans, LA, USA	Theoretical CS	Program Committee member
2022	European Symposium on Algorithm (ESA)	Potsdam, Germany	Theoretical CS	Program Committee member
2020	Foundations of Computer Science (FOCS)	Denver, CO, USA	Theoretical CS	Program Committee member
2020	Combinatorial Pattern Matching (CPM)	Copenhagen, Denmark	Theoretical CS	Program Committee member
2018	Haifa Workshop on Interdisciplinary Applications of Graph Theory, Combinatorics, and Algorithms	Haifa, Israel	Theoretical CS	Program Committee co-chair

2017	Symposium on Discrete Algorithms (SODA)	Barcelona, Spain	Theoretical CS	Program Committee member
2014	European Symposium on Algorithm (ESA)	Wroclaw, Poland	Theoretical CS	Program Committee member

7. Invited Lectures\ Colloquium Talks

Date	Place of Lecture	Name of Forum	Presentation/Comments
June 2024	Ramat-Gan, Israel	Bar-Ilan University Computer Science Colloquium	Minimum Cut in $O(m \log^2 n)$ Time
April 2024	Beer Sheva, Israel	Ben Gurion University CS theory seminar	Minimum Cut in $O(m \log^2 n)$ Time
April 2022	Beer Sheva, Israel	Ben Gurion University CS theory seminar	On distance patterns, exact distance oracles and metric compression in unweighted undirected planar graphs
June 2021	Online	Bar-Ilan University Computer Science Colloquium	On edit distance oracles and planar distance oracles
March 2021	Online	Mondays with Marty seminar series	Truly Subquadratic Exact Distance Oracles with Constant Query Time for Planar Graphs
November 2019	Tel Aviv, Israel	Tel-Aviv University CS Algorithms seminar	Almost Optimal Distance Oracles for Planar Graphs
June 2019	Jerusalem, Israel	19th Haifa Workshop on Interdisciplinary Applications of Graphs, Combinatorics and Algorithms, and the Annual Israel Mathematics Union Meeting	Almost Optimal Distance Oracles for Planar Graphs

April 2018	Ramat Gan, Israel	Bar-Ilan University Computer Science Colloquium	Near-Optimal Compression for the Planar Graph Metric
April 2018	Beer Sheva, Israel	Ben Gurion University CS theory seminar	Near-Optimal Compression for the Planar Graph Metric
June 2017	Tel Aviv, Israel	Tel-Aviv University Computational Geometry seminar	Voronoi diagrams, diameter and distance oracles for planar graphs
June 2016	Dagstuhl, Germany	Dagstuhl Seminar 16221 Algorithms for Optimization Problems in Planar Graphs	Minimum Cut of Directed Planar Graphs in $O(n \log \log n)$ Time
October 2013	Dagstuhl, Germany	Dagstuhl Seminar 13421 Algorithms for Optimization Problems in Planar Graphs	Multiple-Source Multiple-Sink Maximum Flow in Directed Planar Graphs in Near-Linear Time
November 2012	Cambridge, MA, USA	MIT Computer Science Colloquium	Multiple-Source Multiple-Sink Maximum Flow in Directed Planar Graphs in Near-Linear Time
April 2012	West Lafayette, IN, USA	Purdue University Computer Science Colloquium	Exploiting Graph Structure - Beauty and Efficiency in Planar Graphs
January 2012	Beer Sheva, Israel	Ben Gurion University Computer Science Colloquium	Exploiting Graph Structure - Beauty and Efficiency in Planar Graphs
January 2012	Haifa, Israel	Haifa University Computer Science Colloquium	Exploiting Graph Structure - Beauty and Efficiency in Planar Graphs
January 2012	Herzliya, Israel	IDC Computer Science Colloquium	Exploiting Graph Structure - Beauty and Efficiency in Planar Graphs
October 2011	Dartmouth, NH, USA	Dartmouth College Computer Science Colloquium	Multiple-Source Multiple-Sink Maximum Flow in Directed Planar Graphs in Near-Linear Time

April 2011	Haifa, Israel	Haifa University Computer Science Colloquium	Multiple-Source Multiple-Sink Maximum Flow in Directed Planar Graphs in Near-Linear Time
February 2011	Beer Sheva, Israel	Ben Gurion University Computer Science Colloquium	Multiple-Source Multiple-Sink Maximum Flow in Directed Planar Graphs in Near-Linear Time

8. Research Grants

a. Grants Awarded

Role in Research	Co-Researchers	Topic	Funded by/ Amount	Year
PI	Oren Weimann	Planar-Graph Algorithms – The Next Generation	ISF / 1,000,000 NIS	2021-2024
PI	Oren Weimann	Arbology - Pattern Matching on Trees	ISF / 1,600,000 NIS	2017-2022
PI	Oren Weimann	Planar-Graph Algorithms – Solving Problems Faster on Graphs that Matter	ISF / 1,040,000 NIS	2013-2018

9. Scholarships, Awards and Prizes

ICALP 2020 best paper award (track A, with P. Gawrychowski and O. Weimann)

IDC outstanding researcher award (2018)

IDC outstanding lecturer award (2015, 2017)

ESA 2010 best student paper award (with C. Wulff-Nilsen)

CPM 2007 best paper award (with O. Weimann and M. Ziv-Ukelson)

10. Teaching

a. Courses Taught in Recent Years

Year	Name of Course	Type of Course Lecture/Seminar/Workshop / Introduction Course (Mandatory)	Degree	Number of Students

2024, 2019, 2016	Advanced Data Structures	Lecture	M.Sc.	30-40
2023- 2025	Data Structures	Mandatory course	B.Sc.	200+
2014- 2022	Computability and Complexity	Mandatory Course	B.Sc.	200+
2024, 2022, 2018, 2015, 2013,	Algorithms for planar graphs	Lecture	M.Sc.	20-30
2022, 2024, 2025	Introduction to Quantum Computing	Lecture	M.Sc.	10
2020	Seminar on Quantum Computing	Seminar	M.Sc.	10
2019	Data Structures and Algorithms for Data Science	Lecture	M.Sc.	25
2014- 2018	Advanced Algorithms	Mandatory Course	M.Sc.	70
2014	Seminar on topics in theoretical CS	Seminar	M.Sc.	20

b. Supervision of Graduate Students

Name of Student	Title of Thesis	Degree	Date of Completion	Students' Achievements
Daniel Prigan		Ph.D		Paper at ICALP'25
Dor Mesica	A Faster Algorithm for Maximum Flow in Directed Planar Graphs with Vertex Capacities	M.Sc.	2021	Paper at ISAAC'21
Benjamin Tebeka	Exact Distance Oracles for Planar Graphs with Failing Vertices	M.Sc.	2018	Paper at SODA'19

Itay Laish	Efficient Dynamic Vertex-Label Distance Oracles for Planar Graphs	M.Sc.	2017	Paper at WAOA '17
Eyal E. Skop	Efficient Vertex-Label Distance Oracles for Planar Graphs	M.Sc.	2015	Paper at WAOA '15

c. Postdoctoral students

Name of Student		Dates	Students' Achievements
Itai Boneh	co-advised with O. Weimann	2022-2025	3 papers
Shay Golan	co-advised with O. Weimann	2022-2025	3 papers
Panagiotis Charalampopoulos	co-advised with O. Weimann	2020-2022	4 papers
Abhiruk Lahiri	co-advised with O. Weimann	2018-2019	-
Seungbum Jo	co-advised with O. Weimann	2018	1 Paper
Pawel Gawrychoski	co-advised with O. Weimann	2016-2017	9 papers
Yahav Nussbaum	co-advised with O. Weimann	2014	2 papers