Arielle Leitner

CURRICULUM VITAE

CONTACT INFORMATION	Mathematics Unit Fikus Building Afeka College of Engineering Tel Aviv, Israel	E-mail: ArielleL@afeka.ac.il WWW: http://www.wisdom WWW: https://www.afeka.a	
RESEARCH INTERESTS	Chabauty spacesSymmetric Spaces, BuildingCoarse Geometry and CoarseDessin d'Enfant	<u>-</u>	
EMPLOYMENT	Lecturer Afeka College of Engi Senior Postdoctoral Fellow We Postdoctoral Fellow, Technion, Teaching Assistant, UC Santa Graduate Student Researcher, Graduate Student Researcher, Research in Mathematics	izmann Institute of Science Israel Institute of Technology Barbara UC Santa Barbara	Sept 2009- June 2015 Spring 2013, Winter 2014, Spring 2014, Winter 2015
EDUCATION	University of California, Santa	Barbara, Santa Barbara, CA	USA
	Ph.D., MathematicsThesis: Geometric TranAdvisor: Daryl Cooper	esitions of the Cartan Subgrou	June 2015 $p \ in \ SL(n,\mathbb{R})$
	Certificate in College and U	Jniversity Teaching	April 2014
	M.A., Mathematics		June 2011
	California State University, Ch	nico, Chico, CA USA	
	B.S., Mathematics		May 2009
Fellowships, Awards, & Grants	Weizmann Institute of Science • Weizmann Emergency Post • Senior Postdoctoral Fellows	doctoral Fellowship for COVI	D19 November 2020 September 2018
	 Technion Israel Institute of Te Returning Scientists Grant Lady Davis Postdoctoral Fe GEAR Travel Grant to Ital GEAR Travel Grant to Sin GEAR Travel Grant to San 	from Israeli Government ellowship at Hebrew Universit ly gapore	Sept 2015, Sept 2016 y (declined) Spring 2018 September 2017 June 2016 February 2016

University of California, Santa Barbara

• Graduate Merit Fellowship

Summer 2012, 2014

• Campus Wide Teaching Assistant Award

June 2012

• Mathematics Department Outstanding Teaching Assistant

June 2014

January 2015

• AWM Travel Grant • University of California Chancellor's Postdoctoral Fellowship (declined) May 2015

California State University, Chico

• President's Scholarship

May 2006

• Floyd L. English Scholarship

May 2006, May 2007

• Rawlins Award

May 2008

• Research and Creativity Grant

Nov. 2007, Nov. 2008

Publications & Preprints

- "Chabauty Limits of Groups of Involutions in SL(2, F)", submitted, joint with Corina Ciobotaru https://arxiv.org/pdf/2208.12247.pdf
- "An Invitation to Coarse Groups" joint with F. Vigolo to appear in Lecture Notes https://arxiv.org/pdf/2203.08591.pdf in Mathematics
- "On the Chabauty space of $PSL(2,\mathbb{R})$, I: lattices and grafting." submitted, joint with I. Biringer and N. Lazarovich https://arxiv.org/pdf/2110.14401.pdf
- "The Moduli Space of Marked Generalized Cusps in Real Projective Manifolds." joint with S. Ballas and D. Cooper. J. Conf. Dynam., 26 (2022) 111-164 https://arxiv.org/pdf/2008.09553.pdf
- "Local Limits of Connected Subgroups of $SL(3,\mathbb{R})$ " joint with N. Lazarovich. Comptes Rendus. Mathématique 359.4 (2021): 363-376. https://arxiv.org/pdf/1911.09491.pdf
- "Chabauty Limits of Diagonal Cartan Subgroups of $SL(n, \mathbb{Q}_n)$ ", joint with C. Ciobotaru and A. Valette. J. Algebra 595 (2022): 69-104 https://arxiv.org/pdf/1711.04864.pdf
- "Chabauty Limits of Parahoric Subgroups of $SL(n, \mathbb{Q}_p)$ ", joint with C. Ciobotaru, Expositiones Mathematicae (2021)
- "Generalized Cusps on Convex Projective Manifolds: Classification", joint with S. Ballas and D. Cooper. Journal of Topology 13.4 (2020): 1455-1496. https://arxiv.org/pdf/1710.03132.pdf
- "Almost Regular Dessins d'Enfants on a Torus and a Sphere" joint with J. König and D. Neftin, Topology and Applications 243 (2018), 78-99.
- "A Classification of subgroups of $SL(4,\mathbb{R})$ Isomorphic to \mathbb{R}^3 and Generalized Cusps in Projective 3 Manifolds" Topology and its Applications 206, (2016), 241-254
- "Limits Under Conjugacy of the Diagonal Subgroup in $SL_n(\mathbb{R})$ " Proc. Amer. Math. Soc. 144 (2016) 3243-3254.
- "Conjugacy Limits of the Cartan Subgroup in $SL_3(\mathbb{R})$ " Geom Dedicata (2016) 180: 135.
- "Universal Cycles of Restricted Classes of Words" with Anant Godbole, Discrete Math. 310 (2010), no. 23.

INVITED TALKS

Weizmann Midrasha, Rehovot, Israel

May 2023

Technion Teaching Seminar, Haifa, Israel

April 2023

University of Wisconsin, Milwaukee, Topology seminar Ben Gurion University, Probability and Ergodic Theory Seminar, February 2023

Afeka Research Conference, Daniel Hotel, Herziliya

January 2023 September 2022

Buildings in Aarhaus, Denmark

September 2022

University of Haifa Algebra Seminar

December 2021

Israel Mathematical Union, Geometry and Analysis Session, Ben Gurion University,

Ber Sheva, Israel	July 2021
Afeka College Colloquium, Tel Aviv Israel	May 2021
Weizmann Midrasha, Rehovot, Israel	May 2021
University of Bristol, England, Geometry and Topology seminar	March 2021
Institute of Science and Technology, Austria, Algebra Seminar	December 2020
University of Haifa Colloquium	December 2020
Tel Aviv University Real and Complex Geometry Seminar	November 2020
Ben Gurion University Probability and Ergodic Theory Seminar	November 2020
Nearly Carbon Neutral Geometric Topology ncngt.org	June 2020
5th Israeli Conference for Women in Mathematics, Netanya, Israel	March 2020
University of California, Santa Barbara, Topology Seminar	February 2020
Bar Ilan University Algebra seminar	December 2019
Technion Geometry and Topology seminar, Haifa Israel	December 2019
University of Haifa Geometry and Topology seminar, Haifa Israel	December 2019
National University of Singapore Topology Seminar, Singapore.	September 2019
Perspectives on Convex Projective Geometry Mini Course, Sete, Fr	ance. June 2019
Conference on Geometry and Applications, Ort Braude Academic Co	llege, Karmiel,
Israel.	December 2018
University of Haifa, Algebra Seminar, Haifa, Israel.	
Math Club, Technion, Haifa, Israel.	May 2018
Academic College of Tel Aviv-Yafo, Math Colloquium. Yafo, Israel.	March 2018
Holon Institute of Technology, Mathematics Colloquium. Holon, Israel	
ETHZ Geometry Seminar, Zurich, Switzerland	February 2018
Fribourg Geometry Seminar, Fribourg, Switzerland.	February 2018
Technion Topology Seminar, Haifa Israel	January 2018
Ort Braude College of Engineering, Carmiel, Israel.	November 2017
Afeka College of Engineering, Tel Aviv, Israel.	November 2017
University of Haifa, Colloquium. Haifa, Israel.	November 2017
Tel Aviv University, Field Arithmetic Seminar. Tel Aviv, Israel	October 2017
Israel Mathematical Union, Acre, Israel.	May 2017
Department Lunch Seminar, Technion, Haifa, Israel.	March 2017
Asymptotic Geometry of Groups and Spaces, Heidelberg, Germany.	February 2017
University Paris Sud, Orsay, France.	February 2017
Institute des Hautes Etudes Scientifiques, Bures sur Yvette, France.	February 2017
Ben Gurion Topology Seminar, Ber Sheva, Israel.	January 2017
Midrasha Mathematica, Weizmann Institute, Rehovot, Israel.	December 2016
Hebrew University Topology Seminar, Jerusalem, Israel.	December 2016
Bar Ilan Topology Seminar, Bne Berak, Israel. Technion Geometry and Topology Seminar, Haifa, Israel.	November 2016 November 2016
Current Trends for Spectral Data of Higgs Bundles II, Simons Center	
and Physics, Stony Brook, NY.	June 2016
Young Action Now, Weizmann Institute of Science, Rehovot, Israel.	April 2016
Geometry and Topology Seminar, University of Haifa, Israel.	December 2015
Geometry and Topology Seminar, and Groups, Dynamics and Related	
Technion, Israel Institute of Technology, Haifa Israel.	November 2015
Workshop on Geometric Structures, Hitchin Representations, and Re	
Varieties, Korean Institute for Advanced Study, Seoul, Korea.	October 2015
Tel Aviv University, Tel Aviv, Israel.	September 2015
California State University, Chico, Colloquium. Chico, CA.	March 2015
Arizona State University Geometry Seminar, Phoenix, AZ.	February 2015
Pitzer College Topology Seminar, Claremont, CA.	October 2014
Technion- Israel Institute of Technology, Haifa, Israel.	July 2014
California State University, Chico, Math Colloquium, Chico, CA.	March 2014
Algebra Seminar, Bar Ilan University, Bene Berak, Israel	August 2011
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 $\mathrm{June}\ 2016$

TALKS	Joint Mathematics Meetings, San Antonio, TX. UCSB Topology Seminar, Santa Barbara, CA.	January 2015 October 2014
	GEAR Junior Retreat , University of Michigan, Ann Arbor, MI. Graduate Student Geometry and Topology Conference, University of	May 2014 Texas, Austin. April 2014
	UCSB Discrete Geometry Seminar, Santa Barbara, CA.	January 2014
	ICERM Graduate Student and Postdoc Seminar, Providence, RI. UCSB Topology Seminar, Santa Barbara, CA.	October 2013 May 2013
	Under-represented Students in Topology and Algebra Research Symp	
	University, IN.	April 2013
	3rd Annual Southern California Women in Mathematics Symposium,	_
	CA.	November 2010
	CSU, Chico Math Seminar, Chico, CA.	May 2009
	Joint Math Meetings, Washington D.C.	January 2009
	Nebraska Conference for Undergraduate Women in Mathematics (NC	
	Nebraska.	February 2008
	Joint Math Meetings, San Diego, CA.	January 2008
	Center for Excellence in Learning and Teaching Conference, Californi	•
	University, Chico.	October 2007
Conferences	123 Curves Surfaces and 3-Manifolds (Minksy birthday), Nahsholim I	
Attended	Nearly Carbon Neutral Geometric Topology, online	September 2022
	Israel Mathematical Union, Ber Sheva, Israel	September 2022
	Ohalo Seminar on Group Actions, Geometry and Dynamics, Kinneret	
	Burger's Prime, Zurich, Switzerland	June 2022
	Nearly Carbon Neutral Geometric Topology, online	June 2021
	Interface of Low Dimensional Group Actions and Geometric Structure	
	NUS Singapore (online)	January 2021
	Nearly Carbon Neutral Geometric Topology, online	June 2020
	5th Israeli Conference for Women in Mathematics, Netanya, Israel	March 2020
	Combinatorial and Algebraic Aspects of Geometric Structures, Chian	g Mai University
	Thailand.	July 2019
	Perspectives in Convex Projective Geometry, Sete, France.	June 2019
	Geometric Structures in Nice, University of Nice, France. Representation Varieties and Geometric Structures in Low Dimension	January 2019 as. Warwick,
	England.	July 2018
	Non- Positively Curved Groups on the Mediteranean. Nahsholim, Isra	
	Moduli Spaces, Ventotene, Italy.	September 2017
	GEAR senior retreat, Stanford, CA, USA	August 2017
	Geometric Topology in Cortona, Cortona, Italy.	June 2017
	Israel Mathematical Union, Acre, Israel.	May 2017
	Asymptotic Geometry of Groups and Spaces, Heidelberg, Germany.	February 2017
	Workshop on Group Theory (Juhasz Birthday). Technion, Haifa, Isra	el. January 2017
	60 Faces to Groups (Lubotzky Birthday). Institute of Advanced Stud	y, Hebrew
	University, Jerusalem, Israel.	November 2016
	Geometry, Topology, and Dynamics of Moduli Spaces. National University	ersity of
	Singapore, Singapore.	August 2016
	Algebraic, Topological, and Combinatorial Approaches to $Aut(F_n)$. T	echnion. Haifa,
	Israel.	July 2016
	New Perspectives on Higgs Bundles, Branes, and Quantization. Simon	ns Center for
	Geometry and Physics, Stony Brook, NY.	June 2016

	Current Trends in for Spectral Data of Higgs Bundles. Simons Center and Physics, Stony Brook, NY.	for Geometry June 2016
	Advanced School on Geometric Group Theory and Low Dimensional T	
	International Center for Theoretical Physics, Trieste, Italy.	May 2016
	Young Geometric Group Theory V. Karlsruhle, Germany.	February 2016
	Workshop on Geometric Structures, Hitchin Components, and Represe	
	Varieties. Korea Institute for Advanced Study, Seoul, Korea.	October 2015
	Ergodic Theory, Fractals, and Groups. Israel Institute for Advanced St	
	Israel.	October 2015
	First Israeli Conference for Women in Mathematics. Tel Aviv Universi	
	Israel.	August 2015
	Classical and Quantum Hyperbolic Geometry and Topology (in honor	~
	Bonahon). Orsay, France.	July 2015
	Generalizations of Symmetric Spaces. Nahsholim, Israel.	June 2015
	Groups, Geometries and 3-Manifolds (Cooperfest). Berkeley, CA.	May 2015
	Dynamics on Moduli Space. MSRI, Berkeley, CA.	April 2015
	Introductory Workshop: Dynamics on Moduli Spaces of Geometric Str	-
	Berkeley, CA.	January 2015
	Connections for Women: Dynamics on Moduli Spaces of Geometric St	*
	Berkeley, CA.	January 2015
	"What's Next?" The Mathematical Legacy of Bill Thurston. Cornell U	
	Ithaca, NY.	June 2014
	GEAR Junior Retreat, University of Michigan, Ann Arbor.	May 2014
	Graduate Student Geometry and Topology Conference, University of T	
	Graduate Student Geometry and Topology Connecence, University of	April 2014
	Workshop on Inquiry Based Learning, Westmont College, Santa Barba	-
	Workshop on inquiry based bearining, Westmont Conege, Santa Barbo	March 2014
	ICERM Semester Workshop on Geometric Structures in Low Dimension	
	ICERM, Providence, RI.	November 2013
	ICERM Semester Workshop on Geometry, Topology, and Group Theorem	
	Experiment, ICERM, Providence, RI.	October 2013
	ICERM Semester Workshop on Exotic Geometric Structures, ICERM,	
	Tobach Somester Workshop on Enouge Geometric Structures, Tobach,	September 2013
	Under-represented Students in Topology and Algebra Research Sympo	•
	University, IN.	April 2013
	10th Pingree Park Brauer Groups Meeting, Pingree Park, Colorado,	August 2012
	19th Amitsur Symposium, Tel Aviv, Israel,	June 2012
	3rd Annual Women in Mathematics Symposium, Claremont-McKenna	
	ora rimidal (rolleli ili rizamentatico sympostam) etarement rizarema	November 2010
	Joint Mathematics Meetings: 2008,	2009, 2013, 2015
	Mathfest:	2007, 2008
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Conference	Organized meeting of Action Now! at Afeka College of Engineering	November 2022
Organization	Session Organizer at Nearly Carbon Neutral Geometry and Topology	
	(NCNGT)	June 2021
	Conference Organizer for Cooperfest: Groups Geometries and 3-Manife	
Service,	Referee for Memoirs of the AMS since	September 2022
Mentoring, &		September 2021
Leadership	Postdoc Representative on Weizmann Committee for Gender Equality	-
	Co-organizer for Midrasha at Weizmann (research seminar)	2019 -2021
	Co-Organizer for Weizmann Women in Mathematics Forum	2018 -2021
	Duties: Organize bi-weekly soft skills workshops and invite spec	
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		Reflee for Stant Journal of Discrete Math	since 2019
		Refree for Graphs and Combinatorics	since 2017
		Founded Association for Women in Mathematics at t	he Technion
		(WoMathTech)	Oct 2016- Sept 2018
Duties: Organize weekly exercise sessions at TA for Fanny Kassel's Mini Course "Geometric Str			
		· · · · · · · · · · · · · · · · · · ·	_
		Discrete Groups " at ICTP	May 2016
		Duties: Help write exercises and lead problem	
		Helped found first Israel Student Chapter of the Asso	
		Mathematics (AWM)	August 2015
		TA for Yael Algom Kfir's mini course on $Out(F_n)$ at	
		Women in Mathematics	August 2015
		Organized Student Algebra Seminar, UCSB	2011–2013
		Organized Hypatian Seminar, UCSB	2010-2015
		Duties: organized panels/talks on: choosing	
passing qualifying exams, etc, and hosted an invited female Organized Sessions at Math Circle, UCSB		invited female speaker quarterly.	
		· ·	2011-2015
		Mentor in STEEM (program for under priviledged tra	, .
Organized mentor network for incoming first years (and mentored), U 2011-2015		and mentored), UCSB Math	
		Member of Women in Science and Engineering (WiSl	E) 2009-2015
		Mentee/mentor in AWM mentor network	2007- present
	Instructional	Evaluated videos for Online Mathlab, UCSB	Summer 2011
	Development	Ran math department TA training	Fall 2012
		Workshop host at campus wide TA training, UC San	ta Barbara Fall 2012
		Peer mentor (organizer) in Lead Teaching Assistant I	Institute Summer 2012
		Peer mentor (organizer) for Summer Teaching Institu	ite for Associates Summer 2013
	Mentoring	Summer Projects in Mathematics at the Technion	September 2016, 2018
	Undergraduate	Mentored week long summer research project	on Dessin d'Enfants
	Research		
	Teaching	Afeka College of Engineering (Lecturer)	
	22.101111.0	• Calculus 2	Spring 2022
		• Linear Algebra	Fall 2021, Spring 2022, Fall 2022
		• Calculus 1	Fall 2021, Fall 2022
		- Calculus I	1411 2021, 1411 2022
		Technion (Instructor of Record)	
		• Linear Algebra	Winter 2017
		• Calculus 2	Spring 2018
		Tachnian (Taching Assistant)	
		Technion (Teaching Assistant)	C 2017
		• Linear Algebra, Instructor Adi Wolf	Spring 2017
		UCSB (Instructor of Record)	
		• Math 3B: Integral Calculus for Majors	Summer 2013
		• Math 3A : Differential Calculus for Majors	Summer 2014
		UCSB (Course Facillitator)	
		• Math 100AB: Math for Future Elementary School	
		using inquiry based methods.	Winter and Spring 2012
			Winter and Spring 2012.
		• Math 501: Teaching Assistant Training, Taught with	th Chuck Ackemann and Maree
			th Chuck Ackemann and Maree

Refree for SIAM Journal of Discrete Math

since 2019

• Graduate Peer Facilitator, Summer Teaching Institute for Associates Summer 2014

Duties: Gave feedback online for course syllabi/ exams/ teaching statements,
and ran teaching workshops for graduate student instructors

UCSB (Teaching Assistant)

• Math 3A Diff. Calc. for majors, Prof. Chuck Akemann,	Fall 2009
• Math 34A Diff. Calc. for life and social sciences, Prof. Daryl Cooper,	Winter 2010
• Math 3A, Instructor Julia Galstad,	Spring 2010
• Math 3B Integral Calc. for majors, Instructor Rob Ackermann,	Summer 2010
• Math 8 Introduction to Proofs, Dr. Ryan Ottman,	Fall 2010
• Math 3B, Dr. Karel Casteels,	Winter 2011
• Math 8, Prof. Adbesi Agboola,	Spring 2011
• Math 100A, Dr. Kyungheee Moon,	Summer 2011
• Math 100B, Instructor Sonja Mitchell,	Summer 2011
• Math 111A, Group Theory, Prof. Bill Jacob,	Fall 2011
• Math 108A, Linear Algebra with proofs, Prof Mihai Putinar,	Fall 2012
• Math 4BI, Inquiry Based Differential Equations, Dr Elizabeth Thoren,	Winter 2013
• Math 4AI, Inquiry Based Linear Algebra, Dr Elizabeth Thoren,	Fall 2014
• Math 3B, Integral Calc. for majors, Profs Agboola and Akemann	Spring 2015

Personal Languages: English, French, Hebrew

Computer Skills: SAGE, GP PARI, GAP, Mathematica, HTML, LaTex

Citizenship: USA, Israel