Curriculum Vitae

Alp Uzman

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Personal & Contact Information

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Website https://alpuzman.github.io/,

https://www.youtube.com/@alpuzman

Work Experience

• University of Utah (UU) Postdoctoral Researcher

July 2023 – June 2026

Education

• Pennsylvania State University, Univ. Park (PSU) Sep. 2016 – May 2023 Ph.D. in Mathematics Advisor: Federico Rodriguez Hertz Dissertation: Arithmeticity for Smooth Maximal Rank Positive Entropy Actions of \mathbb{R}^k

Dissertation: Arithmeticity for Smooth Maximal Rank Positive Entropy Actions of R^ (https://etda.libraries.psu.edu/catalog/20180azu4)

• **Koç University, Istanbul (KU)** B.Sc. in Mathematics Sep. 2011 – Jun. 2016 Summa Cum Laude

• KU B.A. in Philosophy Sep. 2012 – Jun. 2016

• University of California, Irvine Exchange Program Jan. 2015 – Jun. 2015

• Kabataş Erkek Lisesi, Istanbul Lycee Diploma Sep. 2006 – Jun. 2011

Teaching Experience

University of Utah

• MATH 3220 (Foundations of Analysis II) Fall 2025 https://www.youtube.com/playlist?list=PL40ydqvvyXf0kGMh0rz6AID_HcpwxnzaW https://github.com/AlpUzman/MATH_3220_002_FALL_2025

• MATH 3210 (Foundations of Analysis I) Spring 2025 https://www.youtube.com/playlist?list=PL40ydqvvyXfPGbwcE1wT2_dHVyGykxsLohttps://github.com/AlpUzman/MATH_3210_001_SPRING_2025

• MATH 4800 (Undergrad. Research in Mathematics: Fractal Geom. and Dynamics) Fall 2024 https://www.youtube.com/playlist?list=PL40ydqvvyXfMdJMim52HXAOamgWJOajUM https://github.com/AlpUzman/MATH_4800_001_FALL_2024

• MATH 2270 (Linear Algebra) https://www.youtube.com/playlist?list=PL40ydqvvyXf0BtKE5ZbyvjE0Ff https://github.com/AlpUzman/MATH_2270_002_SPRING_2024	Spring 2024 OoreeUF
 MATH 2250 (Differential Equations and Linear Algebra) https://github.com/AlpUzman/MATH_2250_001_FALL_2023 	Fall 2023
Penn State	
• MATH 435 (Basic Abstract Algebra), grader	Spring 2022
 MATH 597 (Rigidity), cameraman, digital lecture facilitator and video editor https://www.youtube.com/playlist?list=PL40ydqvvyXf0x9BqlxcbpEZMxq 	Spring 2021 6RevBgY
 MATH 251 (Ordinary and Partial Differential Equations) 	Fall 2021
 MATH 513 (Partial Differential Equations I), grader 	Fall 2021
 MATH 21 (College Algebra I), two sections 	Fall 2020
• MATH 230 (Calculus and Vector Analysis)	Spring 2020
• MATH 231 (Calculus of Several Variables)	Spring 2020
 MATH 251 (Ordinary and Partial Differential Equations) 	Fall 2019
• MATH 251 (Ordinary and Partial Differential Equations), two sections	Fall 2018
 MATH 36 (Insights into Mathematics), two sections 	Fall 2017
• MATH 22 (College Algebra II)	Summer 2017
• MATH 220 (Matrices)	Spring 2017
• MATH 34 (Mathematics of Money), assistant	Fall 2016
Koç University Work & Study Program Teaching Assistant (Selecte	d)
MATH 203 (Multivariable Calculus)	Fall 2014
• EQUR 121 (Symbolic Logic)	Spring 2014
EQUR 121 (Symbolic Logic)	Fall 2013
MATH 103 (Introduction to Abstract Mathematics)	Fall 2013
MATH 204 (Differential Equations)	Spring 2013
• MATH 107 (Linear Algebra)	Fall 2012
MATH 106 (Single Variable Calculus)	Fall 2012
Koç University Office of Learning & Teaching (KOLT) Tutor	
• MATH 103 (Introduction to Abstract Mathematics)	Fall 2013
• PHIL 101 (Freshman Seminar)	Fall 2013
MATH 106 (Single Variable Calculus)	Spring 2013
MATH 203 (Multivariable Calculus)	Spring 2013
MATH 107 (Linear Algebra)	Fall 2012

Service

• Turkish Mathematical Society (TMS) DRP Turkey 2025, Co-organizer June-A	Aug. 2025
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• UU Introduction to Research, Mentor

Spring 2025

 Institut Henri Poincaré (IHP) Group Actions and Rigidity Weekly Informal Seminar, Coorganizer
 May-June 2024

• TMS DRP Turkey 2023, Mentor

Jul.-Aug. 2023

• TMS DRP Turkey 2022, Mentor

Jul.-Aug. 2022

• PSU Dynamics Student Seminar, Leading Organizer

Fall 2017 – Spring 2021

Certifications

UU Graduate Teaching Institute	May 2025
Adult Mental Health First Aid USA	Oct. 2023
Heartsaver First Aid CPR AED	Oct. 2023

Publications

- Higher Rank Plante Alternative joint with Kurt Vinhage, in preparation
- Fragility of Rank One Factors joint with Kurt Vinhage, in preparation
- Fried Average Entropy for Actions of Nilpotent Groups, in preparation
- Arithmeticity for Smooth Maximal Rank Positive Entropy Actions of \mathbb{R}^k , submitted to the Journal of Modern Dynamics, under review (https://arxiv.org/abs/2307.09433)

Research Talks & Poster Sessions

• Florida State University Rigidity of Smooth Actions of \mathbb{R}^k

Oct. 2024

- IHP, Actions of Large Groups, Geometric Structures, and the Zimmer Program Arithmeticity for Smooth Maximal Rank Positive Entropy Actions of \mathbb{R}^k Jun. 2024
- **Utah Dynamics Mini-Workshop** Arithmeticity for Smooth Maximal Rank Positive Entropy Actions of \mathbb{R}^k Dec. 2023
- University of California, Riverside Arithmeticity for Smooth Maximal Rank Positive Entropy Actions of \mathbb{R}^k Oct. 2023
- UU Arithmeticity for Smooth Maximal Rank Positive Entropy Actions of \mathbb{R}^k Nov. 2022
- PSU Semi-annual Workshop in Dynamical Systems and Related Topics Katok-Rodriguez Hertz Arithmeticity for Maximal Rank Positive Entropy Actions of \mathbb{R}^k Oct. 2021
- Simons Center Flexibility and Rigidity in Dynamical Systems Poster Session Katok-Rodriguez Hertz Arithmeticity for Maximal Rank Positive Entropy Actions of \mathbb{R}^k Mar. 2021

Honors & Scholarships

• UU C.R. Wiley Instructorship	July 2023 – June 2026
PSU Raymond and Christine Ayoub Award	May 2023
• PSU Pettit Scholarship in Science	Aug. 2016, Jan. 2017, Aug. 2017, Aug. 2018
• KU 1st Ranking Graduate in the College of Scien	nces Jun. 2016
KU 2nd Ranking Graduate in the Department of	Philosophy Jun. 2016
KU Exchange Program Grant	Jan. 2015
• Turkish Foundation of Education Eclat Scholars	Sep. 2012 – Jun. 2015
• KU Tuition Scholarship	Sep. 2011 – Jun. 2016