

Contact Information

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Christian Chávez

MSc student at Université de Sherbrooke, Québec, Canada
Full name: Kevin Christian Chávez Cadena
Citizenship: Ecuadorian
National ID number: 1005215361
Place and date of birth: Ibarra, Ecuador, November 28th, 2001

Curriculum Vitæ

Update: February 10, 2026

Research Interests

Category theory, representation theory, persistence theory,
categorical and bicategorical approaches to topological data analysis.

Education

Master's degree in Mathematics, *Université de Sherbrooke*, 2025 – Present
Québec, Canada.

Research supervised by Emily Cliff and Thomas Brüstle.

Graduate academic record: [Transcript](#).

Bachelor of Science in Mathematics, *Yachay Tech University*, 2020 – 2025
Urququí, Ecuador. Graduated Summa Cum Laude.

Undergraduate Thesis: [Homotopy theory for finite categories](#).

Undergraduate academic record: [Transcript](#) & [General summary](#).

Teaching Experience

Linear Algebra, *Grading Assistant for MAT253*, Université de Sherbrooke, 2026 (Winter)

Linear Algebra, *Grading Assistant for MAT193*, Université de Sherbrooke, 2025 (Fall)

Abstract Algebra, *Teaching Assistant*, Yachay Tech University, Ecuador, 2024 (S2)

Abstract Algebra, *Teaching Assistant*, Yachay Tech University, Ecuador, 2024 (S1)

General Topology, *Teaching Assistant*, Yachay Tech University, Ecuador, 2023 (S2)

Linear Algebra, *Teaching Assistant*, Yachay Tech University, Ecuador, 2023 (S1)

Lecture Notes

Abstract Algebra, *Lecture notes written together with Professor Pablo Rosero*, [Repository](#), 2024

Linear Algebra, *“Álgebra Lineal y Problemas Resueltos”*, Kevin Christian Chávez & Johana Romero-Leiton, Editorial Universidad de Naríño, UDENAR, Colombia, Lecture notes written together with the instructor. [Publication](#), 2022

Academic Projects	Research Assistant , <i>Research Project “Examining Inequality in Ecuador: An Application of Topological Data Analysis”</i> . Director: Pablo Rosero, M.Sc., Yachay Tech University. 2023 – 2025
	Volunteer in the Outreach Project “Recreational Mathematics” , <i>Agreement between Yachay Tech University and Unidad Educativa Teodoro Gómez de la Torre</i> , Ibarra, Ecuador. Director: Rodolfo Gallo, Ph.D. 2022–2023
	Tutor for the Clavemat Community , <i>Professional practice and tutoring of beginning undergraduate students on calculus and linear algebra</i> , Escuela Politécnica Nacional, Quito, Ecuador. Certificate . 2021
Presentations	Undergraduate Thesis Defense , <i>Homotopy Theory for Finite Categories</i> , Yachay Tech University, Urcuquí, Ecuador. April 4, 2025
	VI Jornadas Ecuatorianas de Matemáticas , <i>Speaker on the topic Homotopy Theory for Finite Categories</i> », Yachay Tech University. Acceptance letter . 11/2024
	Conference , <i>Applications of Topological Data Analysis: Exploring Persistent Homology in Social Inequality and Neural Networks Optimization</i> , Second International conference on applied and computational mathematics for students (ICACM-S), Universidad Politécnica Estatal del Carchi, Ecuador. Certificate . 2024
	Seminar , <i>Cryptography: The Art of Hiding Messages</i> , Seminar on Introduction to Number Theory, Math Club, Yachay Tech University. Certificate . 2023
	Scientific Poster , <i>“The Cycloid: A Bit of History and Some of its Particularities”</i> , “Casa Abierta Todos Nos Sumamos”, Yachay Tech University. Poster . Certificate . 2023
Participation in Academic Events	35th Meeting on the Representation Theory of Algebras and Related Topics , <i>Université de Sherbrooke</i> , Québec, Canada. 10/2025
	Online Winter School , <i>Institute of Mathematics</i> , University of Talca, Chile. 07/2024
	XIX SEDEM Mathematics Olympiad , <i>Member of the Organizing Committee</i> , Yachay Tech University. Certificate . 06/2024
	Mathematics Gathering , <i>Attendee</i> , School of Mathematical and Computational Sciences, Yachay Tech University. 02/2024
	V Jornadas Ecuatorianas de Matemáticas , <i>Member of the Organizing Committee</i> , Yachay Tech University. Certificate . 11/2023
	XVIII SEDEM Mathematics Olympiad , <i>Trainer</i> , Yachay Tech University Campus. Certificate . 05/2023
	First Ecuadorian Congress of Young Researchers-CEJI22 , <i>Attendee</i> , Vice Chancellorship of Research and Innovation and IEEE EMBS Yachay Tech. Certificate . 03/2022
	International Youth Math Challenge 2021 , <i>International Mathematics Competition</i> , Certificate . 10/2021

Extracurricular Activities	Participation in the REL-AL project , <i>Interactive linear algebra book</i> . Contribution: creation of figures and applets in GeoGebra. Website . 01/2024 – 01/2025
	President of the Math Club YT , <i>Yachay Tech University</i> . Club Website . 01/2024 – 01/2025
	Instructor , <i>Introductory Course “Point Set Topology”</i> , From the Math Club at Yachay Tech, Course Webpage , Yachay Tech University. 01/2025
	Instructor , <i>Mini Course “Writing Scientific Articles with \LaTeX”</i> , Math Club, Webpage , Yachay Tech University. 10/2024
	Instructor , <i>Mini Course “Writing Scientific Articles with \LaTeX”</i> , Math Club, Yachay Tech University. 03/2024
Extracurricular Courses	Commutative Algebra: Toward Algebraic Geometry , <i>Physics Latam</i> , Course Webpage . Admission Letter . 09/2024 – 01/2025
	Data Scientist with Python , <i>Data manipulation, visualization, and analysis using Python</i> , DataCamp. Certificate . 2023
	Matlab Onramp , <i>Self-paced training course</i> , Mathworks, Training Services. Certificate . 2021
	Data Analysis , <i>Importance of data analysis, tools, formats, and generalities for proper use of information</i> , AIESEC, Ecuador. Certificate . 2021
Awards	Valedictorian , <i>Best GPA of the 2020–2025 cohort</i> , Yachay Tech University. 2025
	Graduated Summa Cum Laude , <i>Best grade in the history of the School of Mathematics and Computer Science</i> , Yachay Tech University. 2025
	Scholarship for Academic Excellence , <i>Awarded for 9 consecutive semesters (total: 8 100 \$ USD)</i> , Yachay Tech University, Certificate . 2020 - 2024
Languages	Spanish (Native), English (Fluent), French (Advanced)
Software and Technical Skills	(La/Xe)TeX, Linux, Git(Hub), (Neo)Vim, Bash, Matlab, Python, C, R Inkscape, PreText