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Christian Chávez

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

Curriculum Vitæ

Compiled November 25, 2025

Education

Master's degree in Mathematics, *Université de Sherbrooke*, 2025 – Present
Québec, Canada.
Research supervised by Emily Cliff PhD and Thomas Brüstle PhD.

Bachelor of Science in Mathematics, *Yachay Tech University*, 2020 – 2025
Urcuquí, Ecuador. Graduated summa cum laude, *best grade in the history of the School of Mathematics and Computer Science*.
Undergraduate Thesis: Homotopy Theory for Finite Categories.

Teaching Experience

Abstract Algebra, *Teaching assistant under the supervision of Pablo Rosero, M.Sc.*, Seventh-semester course of the undergraduate program of mathematics, Yachay Tech University. 2024 (S1,S2)

General Topology, *Teaching assistant under the supervision of Wilman Brito, M.Sc.*, Sixth-semester course of the undergraduate program of mathematics, Yachay Tech University. 2023 (S2)

Linear Algebra, *Teaching assistant under the supervision of Aracelis Hernandez, Ph.D.*, First-semester course in the undergraduate program of mathematics, Yachay Tech University. 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

Undergraduate Coursework	Full list of undergraduate courses, PDF document .	2020 – 2024
	Algebraic Geometry, Syllabus .	2024
	Differential Geometry, Syllabus .	2024
	Partial Differential Equations, Syllabus .	2024
	Functional Analysis, Syllabus .	2023
	Measure Theory, Syllabus .	2023
	Complex Analysis, Syllabus .	2023
	Abstract Algebra, Syllabus .	2023
	General Topology, Syllabus .	2022
	Real Analysis, Syllabus .	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.	11/2023 – 02/2025
	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	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, Québec, Canada.</i>	10/2025
	Online Mini Course on Simpler Algebraic Groups , <i>Professor Miles Reid, University of Warwick, Physics Latam.</i>	01/2025
	Online Lectures on GIT, Stacks, and Quasimap Theory , <i>Professor Rachel Webb, Cornell University, Physics Latam.</i>	12/2024
	Online Winter School , <i>Institute of Mathematics, University of Talca, Chile.</i>	07/2024
	XIX SEDEM Mathematics Olympiad , <i>Member of the Organizing Committee, Yachay Tech University.</i> Certificate .	06/2024
	Mathematics Gathering , <i>Attendee, School of Mathematical and Computational Sciences, Yachay Tech University.</i>	02/2024
	V Jornadas Ecuatorianas de Matemáticas , <i>Member of the Organizing Committee, Yachay Tech University.</i> Certificate .	11/2023
	XVIII SEDEM Mathematics Olympiad , <i>Trainer, Yachay Tech University Campus.</i> Certificate .	05/2023
	First Ecuadorian Congress of Young Researchers-CEJI22 , <i>Attendee, Vice Chancellorship of Research and Innovation and IEEE EMBS Yachay Tech.</i> Certificate .	03/2022
Extracurricular Activities	International Youth Math Challenge 2021 , <i>International Mathematics Competition,</i> Certificate .	10/2021
	President of the Math Club YT , <i>Yachay Tech University.</i> Club Website .	01/2024 – 01/2025
	Instructor , <i>Introductory Course “Point Set Topology”, From the Math Club at Yachay Tech,</i> Course Webpage , Yachay Tech University.	01/2025
	Instructor , <i>Mini Course “Writing Scientific Articles with $\LaTeX$”, Math Club,</i> Webpage , Yachay Tech University.	10/2024
Extracurricular Courses	Instructor , <i>Mini Course “Writing Scientific Articles with $\LaTeX$”, Math Club,</i> Yachay Tech University.	03/2024
	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
Awards	Data Analysis , <i>Importance of data analysis, tools, formats, and generalities for proper use of information,</i> AIESEC, Ecuador. Certificate .	2021
	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,</i> Yachay Tech University, Certificate .	2020 - 2024
Languages	Spanish (Native), English (Fluent), French (Advanced)	
Software and Technical Skills	(La/Xe)TeX, Linux, Git(Hub), Vim, Bash, Matlab, Python, C, R, Inkscape	