

Contact Information

Sherbrooke QC, Canada
christian.chavez@usherbrooke.ca
chavez.math@protonmail.com
christian-chavez.github.io/

Christian Chávez

MSc student at Université de Sherbrooke, Québec, Canada
Full name: Kevin Christian Chávez Cadena
Citizenship: Ecuadorian

Curriculum Vitæ

Updated: October 27, 2026

Research Interests

Representation theory, category theory, algebraic topology,
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*, Urcuquí, Ecuador. Graduated Summa Cum Laude. 2020 – 2025

Undergraduate thesis: [Homotopy Theory for Finite Categories](#).

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

Languages

Spanish (native), English (fluent), French (advanced)

Presentations

Conference talk, *Interleavings and cluster categories arising from the circle*, 36th Meeting on the Representation Theory of Algebras and Related Topics, Université de Sherbrooke, Canada. 17/10/2026
[Abstract](#). [Slides](#).

Math Club, Des points, des droites et un ballon : le théorème de Sylvester–Gallai, Université de Sherbrooke, Canada. 29/09/2026
[Announcement](#). [Slides](#).

Poster presentation, *The category of chords, cluster categories and interleavings*, Workshop Computable Invariants of Quiver Representations, Lorentz Center, Leiden, The Netherlands. 07/2026
[Poster](#).

SAG Seminar, Distance d'entrelacement et modules d'intervalle, Université de Sherbrooke, Canada. 17/02/2026
[Announcement](#).

Undergraduate thesis defense, Homotopy Theory for Finite Categories, Yachay Tech University, Urcuquí, Ecuador. 04/04/2025

VI Jornadas Ecuatorianas de Matemáticas, *Speaker*: « Homotopy Theory for Finite Categories », Escuela Superior Politécnica de Chimborazo, Ecuador. 28/11/2024
[Acceptance letter](#).

Conference talk, *Applications of Topological Data Analysis: Exploring Persistent Homology in Social Inequality and Neural Networks Optimization*, Second International Conference on Applied and Computational Mathematics for Students (ICACM-S), Universidad Politécnica Estatal del Carchi, Ecuador. 30/05/2024
[Certificate](#).

Seminar talk, *Cryptography: The Art of Hiding Messages*, Seminar on Introduction to Number Theory, Math Club, Yachay Tech University. 31/07/2023
[Certificate](#).

	Scientific poster , <i>The Cycloid: A Bit of History and Some of its Particularities</i> , Open house “Todos Nos Sumamos”, Yachay Tech University. Poster . Certificate .	09/03/2023
Awards & Fellowships	ISM Scholarship , <i>Awarded to top graduate students in the mathematical sciences in Québec (total: 7 000 \$CAD, including 3 500 \$CAD funded by the ISM)</i> , Institut des sciences mathématiques (ISM), Award letter .	2026 – 2027
	ISM Travel Grant , <i>500 \$CAD to attend the workshop Computable Invariants of Quiver Representations</i> , Lorentz Center, Leiden, The Netherlands, Institut des sciences mathématiques (ISM), Award letter .	2026
	Valorisation des travaux étudiants , <i>625 \$CAD Faculty of Science award to present research at the workshop Computable Invariants of Quiver Representations</i> , Lorentz Center, Leiden, The Netherlands, Faculty of Science, Université de Sherbrooke, Award letter .	2026
	Valedictorian , <i>Best GPA of the 2020–2025 cohort</i> , Yachay Tech University.	2025
	Graduated Summa Cum Laude , Yachay Tech University.	2025
	Academic Excellence Scholarship , <i>Awarded for 9 consecutive semesters (total: 8 100 \$USD)</i> , Yachay Tech University, Certificate .	2020 – 2024
Conferences & Workshops Attended	Workshop: Computable Invariants of Quiver Representations , Lorentz Center, Leiden, The Netherlands. Workshop webpage . Poster presentation .	07/2026
	XXVIII^e Colloque panquébécois de l’ISM , Université du Québec à Trois-Rivières, Québec, Canada.	05/2026
	35th Meeting on the Representation Theory of Algebras and Related Topics , Université de Sherbrooke, Québec, Canada.	10/2025
	XIX SEDEM Mathematics Olympiad , <i>Member of the Organizing Committee</i> , Yachay Tech University. Certificate .	06/2024
	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. Certificate .	05/2023
	First Ecuadorian Congress of Young Researchers (CEJI22) , <i>Attendee</i> , Office of the Vice-Rector for Research and Innovation & IEEE EMBS Yachay Tech. Certificate .	03/2022
	International Youth Math Challenge 2021 , <i>International mathematics competition</i> , Certificate .	10/2021
Research Experience	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
Teaching Experience	Discrete Mathematics , <i>Teaching Assistant for MAT120</i> , Université de Sherbrooke.	2026 (Fall)
	Linear Algebra , <i>Grading Assistant for MAT253</i> , Université de Sherbrooke.	2026 (Winter)
	Linear Algebra , <i>Grading Assistant for MAT193</i> , Université de Sherbrooke.	2025 (Fall)
	Abstract Algebra , <i>Teaching Assistant</i> , Yachay Tech University, Ecuador.	2024 (S2)

	Abstract Algebra , <i>Teaching Assistant</i> , Yachay Tech University, Ecuador. 2024 (S1)
	General Topology , <i>Teaching Assistant</i> , Yachay Tech University, Ecuador. 2023 (S2)
	Linear Algebra , <i>Teaching Assistant</i> , Yachay Tech University, Ecuador. 2023 (S1)
Lecture Notes	Abstract Algebra , <i>Lecture notes written with Professor Pablo Rosero</i> , 2024 (S2) Repository . Linear Algebra , “Álgebra Lineal y Problemas Resueltos”, Kevin Christian Chávez & Johana Romero-Leiton, Editorial Universidad de Nariño, UDENAR, Colombia, Lecture notes written with the instructor. Publication .
Extracurricular Activities	Participant in the REL-AL project , <i>Interactive linear algebra textbook. Contribution: figures and GeoGebra applets.</i> 01/2024 – 01/2025 Website . President of the Yachay Tech Math Club , <i>Yachay Tech University.</i> 01/2024 – 01/2025 Club website . Instructor , <i>Introductory course « Point-Set Topology »</i> , Math Club, 01/2025 Course webpage , Yachay Tech University. Instructor , <i>Mini-course « Writing Scientific Articles with $\LaTeX$ »</i> , Math Club, 10/2024 Course webpage , Yachay Tech University. Instructor , <i>Mini-course « Writing Scientific Articles with $\LaTeX$ »</i> , Math Club, 03/2024 Yachay Tech University. Volunteer, outreach project “Matemáticas Recreativas” , 2022 – 2023 <i>Agreement between Yachay Tech University and Unidad Educativa Teodoro Gómez de la Torre, Ibarra, Ecuador. Director: Rodolfo Gallo, Ph.D.</i> Certificate . Tutor for the Clavemat community , <i>Professional practice; tutoring undergraduates in calculus and linear algebra</i> , Escuela Politécnica Nacional, Quito, Ecuador. Certificate . 2021
Extracurricular Courses	Commutative Algebra: Toward Algebraic Geometry , 09/2024 – 01/2025 <i>Physics Latam</i> , Course webpage . Admission letter . Data Scientist with Python , <i>Data manipulation, visualization, and analysis with 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 best practices for using information</i> , AIESEC, Ecuador. Certificate . 2021
Software and Technical Skills	Lean 4, (La/Xe)TeX, Linux, Git(Hub), (Neo)Vim, Bash, Matlab, Python, C, R Inkscape, PreTeXt