

JUAN PEDRO ROSS OLIVARES

LAST ACTUALIZATION ON 2025 SEPTEMBER 9TH

ABOUT ME

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AGE: 30
NATIONALITY: Chilean

SUMMARY

Higher education researcher specializing in quantitative (statistical analysis, modeling, and longitudinal studies) and qualitative (interviews, thematic analysis, and case studies) methodologies to examine academic trajectories, student experiences, and the impact of strikes on educational processes. I have studied self-determination and persistence among students admitted through special pathways, as well as access to STEM careers. My goal is to generate evidence that informs decision-making and public policies aimed at improving educational equity and quality.

EDUCATION

2023 -	Student of Higher Educational and Organizational Change PhD program, University of California - Los Angeles, USA.
2019 - 2020	Master in Science of Engineering with mention in Mathematical Engineering, Universidad de Chile, Santiago, Chile. <i>Graduated with highest distinction. Final grade: 6,8 / 7,0</i>
2014 - 2020	Mathematical Civil Engineering , Universidad de Chile, Santiago, Chile.. <i>Graduated with highest distinction. Final grade: 7,0 / 7,0</i>
2018 - 2019	Six months of academic exchange in Polytechnic University of Valencia, Valencia, Spain.

EXPERIENCE

Jobs

August 2021 - August 2023	Data analysis and Research assistant , Universidad de Chile. <i>Developing research and giving support for decision-making in the Faculty of Physical Sciences and Mathematics (FCFM).</i>
July 2020 - December 2021	Data analysis , Universidad de O'Higgins. <i>Modeling and doing data analysis to prevent students from dropping out of college and to estimate the student's academic load in the Education School.</i>
March 2017 - July 2021	Manager of mathematical subjects evaluations, Universidad de Chile. <i>I had to work for the correct development of 30 assignments per term, checking that readers did well their job.</i>
March 2020 - July 2020	Activando la Resolución de Problema en el Aula (ARPA), Universidad de Chile. Generation of teaching material for active learning methodologies.

Research participation

October 2023 - September 2024	Graduate Student Researcher in Higher Education Research Institute (HERI), UCLA. Topic: First and senior-year college students' experience.
March 2022 - December 2023	Research assistant in the Núcleo Milenio EDSUP . Topic: Identification of students' profile learning and combination with the use of institutional Learning Management Systems.
March 2021 - June 2021	Research assistant in the A2IC of the FCFM. Topic: Teachers adaptation to the remote and virtual education during pandemic, and implementation of Active Learning.
March 2019 - June 2020	MSc Thesis. Topic: Engagement of students in strikes.

Teaching experience

October 2024 -	Teaching Assistant of Introduction to Inquiry and Research in Education, UCLA.
March 2023 - July 2023	Lecturer of Introduction to Algebra - course for first year engineering students, Universidad de Chile.
March 2019 - July 2019 and March 2020 - July 2020	TA of mathematics course for medicine students , Universidad de Chile.
March 2019 - July 2022	Lecturer of graders , Universidad de Chile. <i>Formation mini-course to have the knowledge to be a good grader in the engineering school.</i>
2016 - 2020	Assistance teaching of advances engineering courses (Functional Analysis and Abstract Algebra), and first-year engineering courses (Linear Algebra, Differential and Integral Calculus, and Introduction to Algebra - in five occasions), Universidad de Chile.

Other experiences

2025 -	Co-chair of the Graduate Student Association in Education, UCLA.
2017 - 2019	Volunteer as math teacher for low economic level students who wants to prepare the PSU in the “Preuniversitario popular José Carrasco Tapia”.
2017	Student representative in the FCFM board.
2014 - 2016	President of the theater group of the FCFM.
2009 - 2015	Scout .

LANGUAGES

Spanish:	Native.
English:	C1 (TOEFL iBT 102/120, 2022).

COMPUTATIONAL SKILLS

Basic	SQL, Java, Office.
Intermediate	Latex, Matlab.
Advanced	Rstudio, Python.

AWARDS

2024	Graduate Summer Research Mentorship, UCLA
2023	Beca Chile Doctorado Extranjero
2022	Fulbright Scholarship
2021	Ismael Valdés Valdés <i>The Chilean Engineering Institute recognise the student who has stood out the most for his moral conditions and for his skills to organize and direct.</i>
2014, 2015 and 2018	Outstanding student
2013	School Spirit Award.

PUBLICATIONS

- Ross, J. **What It Takes to Persist: A Self-Determination Theory Study of Alternatively Admitted Engineering Students in Chile.** In review for conference AERA 2026. April 2026. Paper presentation.
- Ross-Olivares, J. **When Students Stop Classes: Measuring the Academic Effects of Student-Led Strikes through Causal Inference in Engineering Chilean Higher Education.** In review for conference CIES 2026. March 2026. Paper presentation.
- Ross, J. & Celis, S. **Enacting citizenship and stress relief: Triggers and maintenance mechanisms of student strikes in Chile.** In review in Compare: A Journal of Comparative and International Education.
- Ross-Olivares, J. **Self-Regulation and the Influence of Learning Management System interactions on Physics Traditional and Practical Assessment Grades.** In prep
- Ross-Olivares, J. (2025) **Exploring the Experiences of Students with Special Admissions: Strategies to Have a Successful Transition through Engineering Higher Education in Chile.** ASHE 2025: 50th annual conference of the Association for the Study of Higher Education. November 2025. Accepted for paper presentation.

- Ross-Olivares, J. & Almora-Rios, M. (2025) **Beyond Indoctrination: Do Academics and Extracurriculars Significantly Influence Student Political Ideologies?**. AERA 2025: Research, Remedy, and Repair: Toward just education renewal. April 2025. Roundtable presentation.
- Ai, S., Almora-Rios, M., Ross-Olivares, J. & Jiang, T. (2024). **Can Community Cultural Wealth Guide Undergraduate Women of Color Toward STEM Careers? Examining HERI Data.** ASHE 2024: 49th annual conference of the Association for the Study of Higher Education. November 2024. Paper presentation.
- Pascual, R., Pucheu, A., Bravo, N., Quiñones, C., & Ross, J. (2023). Improving and Assessing Self-Awareness of Undergraduate Mechanical Engineering Students: a Case Study from Chile. *International Journal of Engineering Education*, 39(4), 986-1001.
- M. Zapata, S. Baeza and J. Ross, **Promoviendo un Nuevo Modelo de Prácticas Profesionales en la FCFM**, SOCHEDI 2022: XXXIV Congreso Chileno en Educación en Ingeniería, Octubre 2022.
- P. Ramirez, S. Guerrero, J. Cerda, J. Ross and G. Flores, **La Formación Ética Canalizada Mediante La Tecnología: Experiencia y Resultados Preliminares del uso de la Herramienta Web Ethicapp.**, SOCHEDI 2022: XXXIV Congreso Chileno en Educación en Ingeniería, Octubre 2022.
- J. Ross, N. Bravo and J. Solis, **Reconociendo grupos de Aprendizaje Activo: Un catastro cuantitativo en Ingenierías y Ciencias**, SOCHEDI 2021: XXXIII Congreso Chileno en Educación en Ingeniería, Octubre 2021.
- N. Bravo, J. Solis and J. Ross, **El Aprendizaje Activo desde los ojos de los profesores de la FCFM: Un alcance cualitativo**, SOCHEDI 2021: XXXIII Congreso Chileno en Educación en Ingeniería, Octubre 2021.
- J. Ross, N. Bravo y J. Solis, **Overcoming Crisis: A Portrait of the Adaptation of Engineering Professors to Remote Teaching in Chile**, CISPEE 2021: 4th International Conference of the Portuguese Society for Engineering Education, Portugal, Junio 2021.
- J. Ross, **Brecha de Género en las matemáticas and La experiencia de primer año**, dos ensayos en el libro **Estudiantes de ingeniería piensan sobre la enseñanza y aprendizaje de las matemáticas**, Editor Patricio Felmer, ISBN: 978-956-402-650-3.
- J. Ross, **Impacto de las Paralizaciones Estudiantiles en el Rendimiento Académico y la Vida Estudiantil, en Ingenierías y Ciencias, caso FCFM.**, tesis de magister, 2020.
- J. Ross y S. Celis, **¿Descanso para hoy o estrés para mañana?: Beneficios y costos de los paros estudiantiles en ingeniería y ciencias**, *Revista Iberoamericana de Educación en Ingeniería (RIEI)* (2020). Vol. 2.