

Jose M. Pavez

Assistant professor in Elementary Science Education, Western Illinois University

[ORCID 0000-0002-4946-5496](https://orcid.org/0000-0002-4946-5496) | [Google Scholar](https://scholar.google.com/citations?user=...)
josemanuel.pavez@uga.edu | josemanuelpavez@gmail.com

1. ACADEMIC HISTORY

a. Education

Doctor of Philosophy, Science Education

2017-202

University of Georgia, Athens, Georgia

Dissertation: *What to teach in my science methods course? Analysis of the design of elementary, middle school and secondary science methods courses by prospective science teacher educators through a PCK lens*

- Pavez, J., Luft, J., Navy, S. & Idsardi, R. (in progress). A review of resilience in science teacher education. *Studies in Science Education*.
- Pavez, J. (in progress). A case study of prospective secondary science teacher educators' challenges when designing science methods courses: Analysis through a PCK lens. *International Journal of Science Education*.
- Pavez, J. (in progress). What to teach on my science methods course: Experiences of prospective science teacher educators when designing elementary and middle-school science methods courses. *Journal of Science Teacher Education*.
- Pavez, J., Prince, A., Navy, S., Luft, J., Ayano, E., Borgerding, L., Idsardi, R. & Kulp, K. (accepted). Everyone Needs Somebody: What Social Resources Support Newly Hired Teachers of Science. In Sunal, D., Sunal, C. & Ogodo, J. (Eds.), *Crossing the Border from Preservice to Inservice Science Teacher: Research-based Induction as Professional Development* (pp.) IAP.
- Cofré, H., Santibáñez, D., Pavez, J., & Vergara, C. (2022). Pre-service science teacher education around the globe: trends, challenges, and future directions. In Luft, J. & Jones, G. (Eds), *Handbook of Research on Science Teacher Education* (pp. 163-177). Taylor & Francis.
- Pavez, J. (2022). Why do we need to study this? The case of arsenic in the school's soil. In S. Jeong, L. Bryan, D. Tippins & C. Sexton (Eds.), *Navigating the challenges of elementary science teaching and learning: Using case-based pedagogy to understand dilemmas of practice* (pp.). Cham, Switzerland: Springer Nature.
- Cofré, H., Núñez, P., Santibáñez, D.,

- Pavez, J., Herrera, M. y Coll, D. (2016) Natural Sciences for 4th Grade Teacher Edition, Savia Project, SM Publisher.
- Pavez, J., Herrera, M. y Coll, D. (2016) Natural Science for 5th Grade Teacher Edition, Savia Project, SM Publisher.
- Pavez, J., Herrera, M. y Coll, D. (2016) Natural Sciences for 6th Grade Teacher Edition, Savia Project, SM Publisher.
- Díaz, C., Durán, E., Espinoza, J., Fernández, E., Guerrero, M., Herrera, M., Jara, M. y Pavez, J. (2016) Science PSU test Preparation Textbook, Clave Project, SM Publisher
- Lopez, M., Navia, S., Pavez, J. y Navarro, G. (2014) Biology for 10th Grade, Puentes del Saber Project, Santillana Publisher.
- Lopez, M., Navia, S., Pavez, J. y Navarro, G. (2014) Biology for 10th Grade Teacher Edition, Puentes del Saber Project, Santillana Publisher.
- Lopez, M., Navia, S., Pavez, J. y Navarro, G. (2014) Biology 9th Grade, Puentes del Saber Project, Santillana Publisher.
- Lopez, M., Navia, S., Pavez, J. y Navarro, G. (2014) Biology for 9th Grade Teacher Edition, Puentes del Saber Project, Santillana Publisher.

b. Conference presentations

- Pavez, J., Navy, S., Luft, J., Ayano, E., & Prince, A. (2023, Apr 18-21-Submitted). *Facing challenges as a new teacher: The case of new science teachers building up resilience in their early years of teaching*. [Paper presentation]. National Association for Research in Science Teaching (NARST) Annual International Conference, Chicago, Ill, United States.
- Huang, Y., Tran, H., Deluca, J.J., Pavez, J., Gorton, W.C., Luft, J.A., & Whitworth, B.A. (2023, Apr 18-21-Submitted). *Investigating science teachers' professional vision of science and engineering practices* [Paper presentation]. National Association for Research in Science Teaching (NARST) Annual International Conference, Chicago, IL, United States.
- Huang, Y., Tran, H., Pavez, J., Deluca, J., Luft, J., & Whitworth, B. (2023, Apr 18-21). *Investigating science teachers' professional vision of argumentation* [Paper presentation]. Association for Science Teacher Education (ASTE) Annual International Meeting,
- Pavez, J., Singh, H., Huang, Y., Gorton, W., Kumy, C. Clave

presentation]. National Association for Research in Science Teaching (NARST) Annual International Conference, Baltimore, MD, United States.

Green, K., Foster, B., Lucero, M., **Pavez, J.**, Krishnan, S., & Jackson, D. (2019, March 31 - April 3). *Thinking Influencing the Teaching and Learning of Evolution* [Symposium]. National Association fo

d. Creative Contributions

The study looks at the impact of district science coordinators (DSCs) on teachers, and the need of professional development programming to enhance DSCs work with teachers.

I participated in instrument development, data management and analysis, developing proposals and presenting at conferences.

, Athens, GA, United States

- MARS 1021e Biology of the Marine Environment 2021
Course for undergraduate students (30 students).
Teaching assistant, supervised by Dr. Catherine Teare.
Participated in teaching, lesson planning and grading, as well as providing feedback to students.
- BIOL 1103L Concepts in Biology Laboratory 2020-2021
Course for non-major undergraduate students (80 students).
Instructor of records, supervised by Dr. Kimberly Martin.
Responsible for teaching the face to face laboratories, the synchronous and asynchronous online sessions, as well as lesson planning and grading.
- BIOL 2103H Concepts in Biology (Honors) 2021
Course for honors undergraduate students (10 students).
Teaching assistant, supervised by Dr. Jill Beyette.
Participated in teaching, lesson planning and grading, as well as providing feedback to students.
- ESCI 6990E Research Methods Seminar in Science Education 2020
Course for Master's and Specialist degree students (30 students).
Teaching assistant, supervised by Dr. Xiaoming Zhai.
Assisted in lesson planning and grading, as well as providing feedback to students.
- ESCI 6230E Environmental Science Education 2019
Course for Master's and Specialist degree students (30 students).
Teaching assistant, supervised by Dr. Julie Kittleson.
Assisted in designing the teaching modules and syllabus, as well as planning and designing teaching activities and assignments.

, Santiago, Chile

- Innovative Strategies for Developing Scientific Skills in Biology and Natural Sciences 2013-2014
Professional development program for in-service biology teachers (10 students).
Graduate assistant, supervised by Dr. Hernán Cofré.

Instructor, responsible for designing the syllabus, resources, and assignments.

b. 5-12 Teaching Experience

Secondary Biology teacher

2016

Los Maitenes School of Legionary of Christ, Melipilla, Chile

Taught biology to 9th to 12th grade students. Responsible for lesson planning, designing teaching resources and assessments. Taught advanced biology courses for students interested in pursuing scientific or medical careers. Conducted laboratory and hands-on activities. Prepare a

5. Professional and Community Service

a. National/International Service

Science Education Graduate Association (SEGA), community representative

2018-2021

Karen Anabalon, Master in Science Education, External Committee Member, Pontifical Catholic University of Valparaíso, Valparaíso, Chile. Title: "*Debunking Myths: Impact of Understanding of Nature of Science on Scientific Literacy in a Group of High School Students*"

2020

d. Outreach Activities

Organized an experiential learning activity for undergraduate students in an honors biology class (BIOL 2103H Concepts in Biology) with a local garden

6. Other Skills

Spanish (native speaker)

NVivo, qualitative data analysis (intermediate)

Atlas.ti, qualitative data analysis (intermediate)

Qualtrics, survey creation and management
(advanced)

SurveyMonkey, survey creation and management
(advanced)

V-note, for video analysis (intermediate)

Tableau, for data visualization (intermediate)

Otter.ai, for audio transcription (advanced)

Easy record and trim, for audio editing (advanced)

EndNote, reference manager (advanced)

Mendeley, reference and pdf manager (advanced)

Zotero, reference manager (advanced)

Writefull academic, for academic writing
(advanced)

Grammarly, grammar checker (advanced)

Outwrite, grammar checker (advanced)

ProWritingAid, grammar checker (advanced)

Trello, for project management (advanced)

QuickPlan, for project management and Gantt
chart (advanced)

Teamgantt, for project management and Gantt