

# S. ERIKA TORRE

Physics · Instructional Design · Educational Publishing

✉ s.erika.torre@gmail.com — ID 0000-0002-9600-7391 — ET56 — S. Erika Torre

## PROFESSIONAL PROFILE

Physics undergraduate with solid experience in instructional design, STEM curriculum development, and educational publishing in science. Academic Coordinator at CosmoAmautas, a science education project focused on teacher training and learning grounded in the scientific method. I have designed, validated, and edited educational materials, teacher guides, and learning sessions aligned with the National Curriculum, integrating scientific rigor with pedagogical and editorial standards. Experienced in coordinating multidisciplinary teams and translating complex scientific concepts into structured, accessible learning experiences.

## PROFESSIONAL EXPERIENCE

**CosmoAmautas** Jan. 2022 – Present  
*Academic Coordinator* Lima, Peru

- Academic leadership and instructional design for science teacher training programs.
- Design and development of teacher guides, core textbooks, and learning sequences grounded in the scientific method.
- Pedagogical validation and curriculum alignment according to the National Curriculum (MINEDU).
- Academic editing and curation of printed and digital educational materials.
- Coordination with authors, subject-matter experts, and graphic designers.
- Adaptation of content to diverse and intercultural educational contexts.

**Santillana S.A.** May 2023 – Jul. 2024  
*Academic Author & Editor* Lima, Peru

- Instructional design and curriculum planning for Science and Technology (secondary level).
- Authorship and academic editing of textbooks, activity books, and annual programs.
- Editorial coordination with proofreading, layout, and design teams.
- Pedagogical and editorial quality control of printed and digital materials.

**Ediciones Norma – EDUCACTIVA S.A.C.** Dec. 2019 – Dec. 2022  
*Academic Author & Editor* Lima, Peru

- Curriculum development and authorship for Integrated Sciences (primary and secondary).
- Design and validation of diagnostic and formative assessment instruments.
- Academic advisory in Physics, Chemistry, Astronomy, and Astrophysics for the editorial team.

**Ediciones Corefo** Aug. 2023 – Sep. 2023  
*Educational Content Author* Lima, Peru

- Design of pedagogical units for Mathematics Reasoning activity books (primary level).

**Ministry of Culture – Caral Archaeological Zone** Jun. 2025  
*Educational Content Designer* Lima, Peru

- Design and guided implementation of interpretive learning routes at the Sacred City of Caral, focused on astronomical alignments and the integration of archaeology, astronomy, and science education.

## TEACHING & SCIENCE OUTREACH

**Saco Oliveros Schools** Mar. 2017 – Dec. 2019  
*Physics Teacher* Lima, Peru

- Design and implementation of physics lessons for secondary education.

- Development of educational materials and mentoring of experimental projects.

**CAFED – Regional Government of Callao**  
*Physics & Trigonometry Teacher*

Jan. 2016 – Aug. 2016  
*Callao, Peru*

- Lesson planning and design of assessment materials.

## UNIVERSITY TEACHING EXPERIENCE

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**Universidad Nacional de Ingeniería (UNI)**  
*Teaching Assistant*

Aug. 2025 – Dec. 2025  
*Lima, Peru*

- Laboratory teaching assistant for General Physics.
- Teaching support in Classical Mechanics and Optics courses.
- Student mentoring during laboratory sessions, problem-solving activities, and use of experimental equipment.
- Support in the preparation of laboratory manuals, practical guides, and experimental activities.

## EDUCATIONAL PROJECTS & LEADERSHIP

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**Mobile Planetarium (2019 – Present)** Design and coordination of a traveling educational project for astronomy education through immersive experiences.

**International Astronomy Day – Peru (2017 – 2018)** General Coordinator. Academic management, inter-institutional coordination, and organization of public science outreach events.

**Astronomy Group – UNI (2016 – 2017)** Former President. Organization of workshops, science fairs, astronomical observations, and training in telescope use.

## EDUCATION

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**Universidad Nacional de Ingeniería (UNI)**

Lima, Peru BSc in Physics (in progress)

Training focused on scientific reasoning, data analysis, and science education.

## PUBLICATIONS

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**Nature Astronomy** (2022) Calistro Rivera et al., *The CosmoAmautas project for equitable scientific education in Peru*. Springer Nature.

**arXiv** (2021) *Introduction to Stellar Astrophysics*. Co-author and academic editor.

**The Astronomer's Telegram** Author and co-author of multiple short scientific communications.

## SKILLS & TOOLS

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**Instructional design:** curriculum development, didactic sequencing, alignment of learning objectives and assessment.

**Educational publishing:** authorship, academic editing, content curation.

**Educational technologies:** Articulate, GeoGebra, digital learning platforms.

**Tools:** Adobe InCopy, L<sup>A</sup>T<sub>E</sub>X, Python, Microsoft Office, GIMP, Inkscape.

**Scientific communication:** academic and outreach writing.