

SHENG-ZHOU TAN

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WORK EXPERIENCE

- Science Teacher, Columbia Public Schools, Columbia, Missouri** August 2025 – Present
- Science Teacher, Jefferson Parish Schools, New Orleans, Louisiana** August 2018 – July 2025
- Biology, Earth Science, Environmental Science, Physics Instructor*** 2018 – Present
- Developed and iterated on hundreds of differentiated assessments, projects, and scoring rubrics to accurately measure student mastery across diverse learning styles.
 - Identified patterns of misunderstanding and common error types across 100+ students per semester, enabling the development of targeted remediation.
 - Spearheaded the integration of LLM AI tools into the curriculum development process to generate assessment question templates, create consistent assignment instructions, and brainstorm project ideas, improving planning efficiency.
 - Applied iterative prompt development to refine AI-generated content, ensuring alignment with state standards and pedagogical goals.
 - Systematically tracked and analyzed student assessment data in spreadsheets to monitor progress, identify regressions, and optimize instructional strategies.
 - Managed the needs and expectations of stakeholders (parents, students, and administration) through needs analysis and communication.
 - Improved student academic growth with 80% of students meeting their learning targets.
- AP Biology Instructor*** 2021 – 2023
- Developed and iterated intensive AP Biology curriculum over a 50% shortened delivery timeline while still aligning with College Board AP instructional criteria.
- Honors Biology Instructor*** 2019 – Present
- Developed and facilitated engaging, scenario-based simulations to promote higher-order thinking, demonstrating experience in creating complex, open-ended prompts that test for nuanced understanding.
- ESL Designated Science Instructor*** 2019 – 2024
- Developed and iterated science curriculum to ESL students by incorporating accessible Non-English Language support and multi-tiered English language support, such as translations, subtitles, visual aids, and vocabulary acquisition plans.
- Mentor Teacher*** 2021 – 2024
- Trained 3 new teachers on curriculum standards and grading rubrics, ensuring consistency in assessment and delivery of content.
- Enrichment Instructor, UNO Upward Bound, New Orleans, Louisiana** June 2022 – June 2025
- Created, iterated, and facilitated Science and Mandarin Chinese enrichment courses.
 - Delivered scenario-based simulations, explorations, and learning games for over 50 students.
- Science and Math Tutor, Think Tank Learning, San Francisco, California** 2015 – 2018
- Made personalized learning and academic growth plans for over 30 clients.
 - Improved the SAT and ACT scores of over 30 clients.

EDUCATION

Xavier University of Louisiana (XULA), New Orleans, Louisiana 2018 – 2020
Masters of Arts in Teaching, Secondary Education (Biology), Class of 2020.

Texas A&M University (TAMU), College Station, Texas 2010 – 2014
Bachelor of Science, Biomedical Sciences, Class of 2014.

SKILLS

- Virtual Teaching and Learning
- G Suite (Doc, Sheet, and Slide decks)
- Microsoft Suite (Word, Excel, Powerpoint, and Outlook)
- Learning Management Software
- LLM AI tools for learning (MagicSchool, Deepseek, ChatGPT, Microsoft Copilot)
- Curriculum development
- Assessment and evaluation
- Differentiated instruction
- Data analysis
- Test case development
- Rubric design and Quality triage
- Public speaking and presentation

LANGUAGE AND PERSONAL INTERESTS

- Mandarin Chinese with fluency in speaking and proficiency in reading.
- Breakdancer of 19 years.
- Game Master for local table-top role playing games.