

TORRENCE G. TEMPLE

- Δ Graduate and Undergraduate Adjunct Professor and Course Developer
- Δ Educational Learning Technologies Design and Implementation Consultant
Contractor; US Embassy - Central Asia
- Δ Author, Designer; and P.I. for the "Apocalypse Effect" driven STEM curriculum
- Δ NGSS Chemistry and Physical Science Teacher

29258 Eagle Drive, Murrieta CA 92563
(951) 973-4141
tory.temple@gmail.com

EDUCATION

- Ed.D. Educational Technology Boise State University, 2021
Dissertation Title:
An Analysis of Ubiquitous Learning Environments and STEM Confidence Building Among Hispanic Students
Summary: A three year analysis into the psycho-social influences of Hispanic reveals that ubiquitous learning environments offer significant design opportunities to increase the confidence through expectancy theory evaluation.
- M.A. Educational Technology Azusa Pacific University, 2002
Thesis Title:
Boldly Going: An Interactive Multimedia STEM Learning Experience
Summary: An immersive space science learning experience where students experience the learning through role-play narrative, interactive software, live and interactive media presentation, and specialized document design. (Recipient of the Subaru National Science Teaching Award).
- B.A. Biology and chemistry Point Loma Nazarene University, 1994
Chemistry Research Focus:
Liquid and micro-particle suspension of polar and non-polar medications in perfluorooctobromide solutions.
Summary: Successfully identified a protocol to suspend and apply chemically incompatible medications for life-saving anti-microbial infections in neonatal patients.

Instructional Credentials

California RYAN Single Subject Clear Credential Cal. State San Marcos, 1997

INSTRUCTIONAL EXPERIENCE

University Instruction

National University (2018 - Current)

- Assistant Professor & Academic Program Director - ITL Single Subject Credential (2023 - Current)
 - PAR Committee for Sanford School of Education
 - Collaborate with administrative peers to align CTC & PLO standards assessing programs*
 - Develop and Support Course Leads and Part-Time Faculty for Single Subject Program
 - Co-Develop Quarterly Success Reports
 - Lead for Ideation on Implementation of University Virtual Reality Systems

Adjunct Professor (2018 - 2023)

Courses taught:

- 694: Inspired Teaching Technology (2020 - current year round)
 - Developing research methodologies with technology integration for enhanced learning*
- 692: Inspired Student Learning (2020 - current year round)

Developing research literature review in coordination with differentiated instruction
690: Inspired Teaching Inquiry (2020 - current year round)
Developing action research questions, methodology, and resource development.
550-A: Teacher Seminar (Fall 2019)
Guide, advise, coach teaching credential candidates to complete the Cal-TPA Section one
550-B: Teacher Seminar (Spring 2020)
Guide, advise, coach teaching credential candidates to complete the Cal-TPA Section two
675: Integrating Multimedia (2020-2021)
Media design to facilitate accelerated learning using of low-cost or free multimedia tools

Boise State University (Fall 2020)

Graduate Assistant

EdTech 651 - Introduction to Statistics for Educational Technology (Co-Taught - Fall 2020).

Alliant University (2017-2018)

Adjunct Professor

University Field Supervisor for teacher candidates with intern guidance and instructional support.

Azusa Pacific University (Summer 2003 - Spring 2018)

Adjunct Professor

Courses taught and designed

D = Course lead and curriculum author / F2F = Taught in Face to Face environment / OL = Taught all Online

512 Applications of Integrated Software (F2F)

Developing learning content and media using office suite type software

515 Hardware and Basic Networking (D) (F2F)

Fundamentals of computer hardware, components, upgrading, and networking fundamentals

514 Instructional Video (D) (F2F) (OL)

Video design, composition, editing, and publication specifically designed for content delivery

517 Emerging Technologies (D) (F2F) (OL)

Cross-platform study of upcoming technologies, their form, function, and future industry impact

525 Web-based Technology and Media (D) (F2F) (OL)

Developing new and assessing existing online media for use in online learning environments

516 Image Editing and Video Design for the Classroom (D) (OL)

Instruction on Photoshop and other image editing software used for instructional purposes

523 Multimedia Enhanced Learning Environments (D) (F2F) (OL)

Using presentation software to build interactive learning experiences to differentiate learning

521 Digital Media for the Classroom (D) (OL)

Combination course of both image and video design for educational purposes

524 Web site Design (F2F) (OL)

Design and build web-based learning environments for blended learning environments

527 Special Topics in Educational Technology (F2F) (OL)

Management of independent research and technology projects originated by the student

Additional University Service

Assisted in development of the Masters in Educational Technology and Learning program

Lead Instructor and developer for classes:

514 Instructional Video, 521 Digital Media for the Classroom, 524 Website Design.

WASC Preparation team

Developed interactive DVD to present to the WASC team to visiting evaluators to watch and

interact with to experience the Department of Education's vision, goals, and program missions.
 Technical Liaison to the Dean of School of Education
Provided media support, developed high-end visually rich, graphics and video for presentations
 Educational Technology Program Marketing and Program expansion
Developed informational video and marketing program and increased enrollment 220%
 Co-Chair Azusa Technology Conference 2007, 2008.
Developed, organized, and managed University-wide technology conference for educators

K-12 Instructional Experience

San Jacinto Unified School District

San Jacinto High School Science (2016 - current)(Department Chair)

| | |
|-------------------------------|---|
| Chemistry (NGSS) | Delivered F2F & via self-built ubiquitous learning system |
| Advanced Chemistry | Delivered F2F & via self-built ubiquitous learning system |
| Introduction to Digital Media | Delivered F2F & via self-built ubiquitous learning system |

Additional duties:

Instructional Liaison for first year STEM teachers

Provided support, advice, and opportunities for self-reflection - past seven years

Media creation and instructional support site specialist

Wrote and produced "Every Fifteen Minutes" in 2017 & 2019 - a movie illustrating the dangers of youth drinking and driving, designed websites, graphics, and other media for instructional staff site-wide - past six years.

Funded, designed, Built and Manage Virtual Reality Learning Lab

Raised \$15,000, designed and built the first Virtual Reality STEM Learning Lab where all students could experience impossible things in safe controlled spaces.

Instruction and technology support trainer for San Jacinto USD

Supported instructional staff with introductory and advanced instructional technology skills, ideas, and continued support - Past five years.

Murrieta Unified School District (1997 - 2016)

Murrieta Mesa High School (2009 - 2016)

| | |
|---------------------|---|
| CP Biology | Delivered F2F |
| CP Chemistry | Delivered F2F & via self-built ubiquitous learning system |
| Living by Chemistry | Delivered F2F |
| AP Chemistry | Delivered F2F & via self-built ubiquitous learning system |

Shivela Middle School (1997 - 2009)

| | |
|-------------------------------------|--|
| 8th Grade Advanced Physical Science | Delivered via traditional face-to-face instruction |
| 7th Grade Life Science | Delivered via traditional face-to-face instruction |

PUBLICATIONS, PROJECT BUILDS, AND OTHER PUBLISHED MEDIA

Research Experience

Qualitative Methodology Researcher and Writer

Graduate Assistant (2018- 2020)

Assisted with NSF funded qualitative study on using video to conduct research within computational thinking study in mixed gender middle school classroom.

Co-Authored paper, accepted Spring 2021 TQR (The Qualitative Report).

Assisted with NSF funded mixed-methods research grant paper titled, "The Outcome of Title I Elementary Students Participation in an After-School PBL-Based Project."

Research Published and Pending

Snelson, C., Yang, D., & **Temple, T.** (2021). Addressing the challenges of online video analysis in qualitative studies: A worked example from computational thinking research. *The Qualitative Report*, 26(6), 1974-1988. <https://doi.org/10.46743/2160-3715/2021.4734>

Instructional Media Technology Publications and Industry Collaboration

Provectus Learning (provestuslearning.org)

Executive Director (2023 - Current)

Design and create courses catering to distance learning students through charter and home schools. Tasks include network and site backend organization and maintenance. Hosting management, site installation, design, and management, training course designers for online instructional techniques. Instructional media designs, visual supports, and other instructionally important materials.

ExL Labs, Inc.

Co-Founder and President (2019 - Current)

Build interactive immersive VR role-play game and “hands-on” learning experiences. Concept marketing, investment procurement educational liaison, content author, narrative and instructional content development. *Alpha release 0.75 published 2023.*

CGInteractive

Science Content Standards & Learning Sciences consultant for Ubiquitous STEM app (2021 - Current) based in Puerto Rico.

Educational and learning sciences consult - Form and guide the learners’ user experiences

Capital investment procurement team - Co-developed pitch deck

Assisted with App development project management and App design.

Science content and narrative integration expert - Develop the science accurate storyline

7th and 8th grade math and science content author for upcoming cell phone-based STEM app designed for the Hispanic-American community.

Interactive Science Curriculum and Instructional Technology Publications

AREA154: Apocalypse Division - Ubiquitous learning system designed to thematically enrich instruction for STEM and Chemistry. The result of 10 years of educational product development, adolescent cognitive research and cultural psycho-social analysis. Currently in use and published in three countries. (<http://area154.net> for more information.)

AREA154: Black Ops - The predecessor to the Apocalypse Division lacking the ubiquitous content access element.

mesascientific.org - (2009 - 2012) The first paperless public high school curriculum in California designed for blended learning environments.

Atom & Quark - Published in 2007, this interactive DVD series taught complicated science concepts to elementary school students using menu-driven choose your own adventure options and powerful narrative design techniques.
(Sample online: <http://atomandquark.area154.net>).

Boldly Going - (2003) Winner of the *Subaru National Science Teaching Award for technology Integration* into science for middle school. Unit was an immersive five-day experience to

study the planets and save the Earth.

Online and International Professional Development

U.S. Embassy - Central Asia

Educational Consultant (2020)

In collaboration with Dr. Randall Gwin and Dr. Jonathon Crocker of Boise State University created *Enhanced Methods of Online Distance Learning* - Sponsored by the U.S. Embassy in Bishkek, Kyrgyzstan, co-authored the EMODL program which is the largest and most far-reaching educational technology instructional program in all of Central Asia. Participants spanned seven countries and included international educational leaders such as members of the Ministry of Education from Turkmenistan and Uzbekistan.

District Level Professional Development

The Eduneering Initiative - A professional development program designed to train teachers to be self-reliant creative innovators of their own curriculum; A nine-month program based on a grass-roots application-based enrollment method.

Extra-Educational Media Production and Publications

CSI:NY (2010) - S4:E4 "Times Up" Science consultant for crime scene investigation show, developed engaging science that could help engage audiences as well as solve complex criminal investigations.

ABC Studios Project Pilot (2010) - Selected as the educational on-screen member of talk show hosted and Produced by Tori Spelling for ABC talk show pilot.

"A time of our OWN" (2011) - Selected as educational on-screen member of talk show for the Oprah Winfrey Network.

CONFERENCE PRESENTATIONS

Temple, T. (2022) *"The Apocalypse Effect"* - Presentation on the use of emotionally intense thematic media to engage students in STEM science activities designed to teach and apply to real-world situations. SITE conference -2020, San Diego.

Temple, T. (2020) *"Thematic Simulations for Engaging the Unengagable"* - Presentation on the use of emotionally intense thematic media to engage students in STEM science activities designed to teach and apply to real-world situations. IETA conference, Boise, Idaho.

Temple, T. (2017) "S.T.E.M. For Elementary Science"- San Jacinto Unified School District Professional Development Conference. San Jacinto, California.

Temple, T. (2012). "Pirates of the Class I-Wanna-Be-In: At Paper's End". International Society of Technology Educators (ISTE), San Diego, California

Temple, T. (2011). "Pirates of the Class I-Wanna-Be-In: At Paper's End", ASTE Conference - Anchorage, Alaska: *Featured Speaker*

Temple, T. (2011). "G.E.A.R.S."- Flexible, Creative, Low-cost Solution to Differentiated Instruction & Technology Implementation." ASTE Conference - Anchorage, Alaska: *Featured Speaker*.

Temple, T. (2011). "G.E.A.R.S. - A Flexible, Creative, Low-cost Solution to Differentiated Instruction and Technology Implementation." METC Conference - St. Louis, Missouri: *Featured Speaker*.

Temple, T. (2010). "Paperless Classroom for Under \$100" International Society of Technology Educators (ISTE), Denver, Colorado

Temple, T. (2008). "Motivating Middle School Science Students Using Multimedia Video Technology". International Society of Technology Educators (ISTE). San Antonio, Texas.

Temple, T. (2008) "Boldly Going" Faculty Kick-Off, Azusa Pacific University. Azusa, California. *Keynote Speaker*.

Temple, T. (2007) "Content Absorption Rates and the Use of Media Rich Instruction" Azusa Pacific University Technology Symposium. Azusa, California. *Keynote Speaker*.

POSITIONS OF SERVICE

Site-wide manager and coordinator for the Virtual Reality Learning Lab (2022 - Current).

Science Department Chair - SJHS (2021 - current).

District STEM trainer for elementary and secondary school students (2018 - Current).

Instructional technology liaison for secondary education - SJHS (2017- current).

Volunteer coordinator self-defense club instruction in Krav Maga. (2018 - 2019).

SPECIAL APPOINTMENTS AND RECOGNITION

PEAMST - Presidential Excellence Award for Science Instruction (2019).

Nominee for excellence in STEM instruction in California.

San Jacinto Educational Foundation Grant Recipient (2018, 2019, 2021, and 2022).

Recognition for continued excellence innovative STEM instruction.

California Department of Education, Sacramento. (2012).

Teacher Training Sub-committee member. Educational Technology Task Force. Sacramento California.

Develop 10 year plan for new methods for teacher training, development, and instruction via learning technologies.

Riverside County PTA Teacher of the Year (2009).

Selected by County wide PTA as "Teacher of the Year" for Riverside County.

PTS Golden Oak Award (2007).

The highest service award given to a teacher at a school site for their service and dedication to students.

"BEST Teacher" National Teacher Award (2005)

Awarded for excellence in technology integration in K-12 School, sponsored by Best Buy, Inc.

Subaru National Science Teacher of the Year (2003).

The top middle school science teacher in the country for efforts in technology and science integrated instruction.

Murrieta Valley Unified District Teacher of the Year (2000).

Presented for outstanding instructional job performance.

Unsung Heroes Award (2000).

A national award for outstanding work in science and technology curriculum development.

Sallie Mae First Class Teacher Award (1998).

An award given for exemplary performance as a first-year teacher.

The Molecular Science Award (1994).

The highest honor bestowed on a graduating senior from the Point Loma Nazarene University Science Department. Given to those who demonstrated excellence in scientific research, academic success, and a positive influence towards the PLNU science community.

Summer Chemistry Research Grant - Sponsored by Alliant Pharmaceutical (1993).

Selected to conduct research on various pharmaceutical chemicals and their ability to dissolve into polar and non-polar delivery mediums for medical applications. Developed sustained and pharmaceutically viable suspension of micro-bacterial neonatal drugs previously thought impossible but Alliant.