

EMILY LEHNARDT

EXPERIENCE

SCIENCE/STEM EDUCATOR

2019-present

- Participated in PLC meetings to collaborate and share creative solutions to academic and behavioral issues.
- Worked in conjunction with our PBIS team on the Eagle Hour committee to implement successful behavioral strategies such as building positive relationships between students and teachers.
- Developed science and STEM curriculum for diverse students.
- Effectively work with Subject Matter Experts into school programs such as STEM night.
- Prepared, analyzed data and implemented a variety of formative and summative assessments such as Common Formative Assessments.
- Projected future instruction based on assessment data.
- Worked closely with other educators to create and plan new and engaging

FIRST/SECOND GRADE EDUCATOR

2008-2018

- Served on the MTSS committee to assist teachers with specific instruction, behavioral and curriculum needs.
- Created multi-tiered reading interventions.
- Thoroughly analyzed data to organize reading groups.
- Collaborated with teachers across grade levels to create standard-based curriculum and assessments.

CLARK PLANETARIUM, ADVISORY BOARD MEMBER

2022-present

- Discuss educational improvements to increase equity among participants.
- Meet with legislators to address astronomy education.
- Provide curriculum resources and feedback to improve public engagement in astronomy education.

DIRECTOR, UTAH WOMEN ASTRONOMICAL SOCIETY

2021-2024

- Facilitate collaboration with Clark Planetarium activities and manages reviews of these activities.
- Currently managing guest speakers, social media outlets, budget and community outreach.
- Collaborate with local universities, colleges and astronomy educators to create high-quality online and in-person activities.
- Developing a robust astronomy curriculum to increase women and girls' participation in astronomy.
- Creating metrics to review women and girl participation at astronomy events.

NASA DATA REVIEWER

2023-present

- Pilot My NASA Data to middle school students.

- Collaborate with NASA educators on design high-quality data curriculum to align with NGSS standards.
- Submit feedback in a timely manner.
- Communicate each quarter to NASA curriculum developers on how to improve My NASA Data.

ASTRONOMY IN CHILE EDUCATION AMBASSADOR

2020-present

- Worked with national and international Ambassadors to discuss US astronomy infrastructure in Chile to middle school STEM students.
- Met with US and Chilean Embassy leaders to discuss astronomy programming and future implementation.
- Develop curriculum.

FOUNDER, ONLINE ARTEMIS STEM CLUB

2020-2021

- Aligned upper elementary (grades 3-6) science curriculum to learning standards.
- Created an effective and high-quality online learning environment using Zoom, word, and science simulations.
- Designed science curriculum into at home, hands-on activities.
- Managed invoices, refunds and budget

FREELANCE CURRICULUM WRITER

2019-present

- Designed grade 1-8 lesson plans for the American Seed Trade Association.
- Focused on biotechnology such as CRISPER to explain gene editing.
- Simplified language to explain the complexity of gene editing for grades 1-8.
- Developed high school curriculum for tomato seeds in space.
- Prepared engaging lessons based on effective teaching theories such as Bloom's Taxonomy for a variety of grade levels.

NASA AMBASSADOR

2018-present

- Since 2020, collaborate with NASA Johnson Space Center to create hands-on, NGSS aligned science curriculum for 13,000-15,000 students in 3-8th grade at the annual Utah STEM Fest.
- Disseminate NASA resources to libraries, schools and community partners such as Scouts.
- Effectively transfer complex NASA processes into simple and understandable language for participants of all ages.
- Design curriculum.

EDUCATION

PHD CANDIDATE, CURRICULUM AND INSTRUCTION, SCIENCE EDUCATION

Utah State University

Logan, Utah

2022-present

Dissertation Topic:

M.S. PARKS, RECREATION AND TOURISM

University of Utah

Salt Lake City, Utah

2005-2007

B.S. ELEMENTARY EDUCATION

Utah Valley University

Orem, Utah

2000-2004

CURRENT EDUCATION
LICENSE/CERTIFICATIONS

- Elementary Education Grade 1-8 Teaching License
- NASA STEM Leadership Certification
- National Geographic Educator
- Gifted Endorsement
- English Language Learners Endorsement
- Reading First Educator

COMPUTER/SOFTWARE
PROFICIENCY

- Operational Systems: Windows
- Virtual Meeting Platforms: Zoom, WebEx, Facetime, Microsoft Teams
- Software: Microsoft Office Suite, MS Publisher, Excel, Word, Wix, PowerPoint, Google Docs, Google Forms, Google Slides, Adobe PDF, Basic Adobe Lightroom.
- Social Media: LinkedIn, Facebook, Instagram

NOTABLE ACTIVITIES,
AWARDS AND HONORS

SELECTED BOARDS AND PANELS

- Clark Planetarium Advisory Board
- Director, Utah Women Astronomical Society
- NASA SPARX Trailblazer Educator
- Governor Cox One Utah Summit, Panelist

SELECTED AWARDS

- Utah Science Teacher Association 6th Grade Outstanding Science Teacher, 2021
- EXCEL Teacher Award, 2017

SELECTED INVITED TALKS

- Association of Science Teacher Education Conference, 2024
Using Lessons from History to Guide AI Implementation in Science Classrooms
- Clark Planetarium Board Member Meeting, 2023
Atacama Cultural Perspectives and Astronomy
- Utah Science Teachers Association Conference, 2023
NASA Engineering Design Process for Middle School STEM
- FOX13 News, Interview, 2022
NASA Artemis Launch to the Moon

- KUTV News, Interview, 2022
NASA Artemis Launch to the Moon
- Delta High School, 2022
We are Going Back to the Moon
- Orem Library: STEM Like a Girl, Booth, 2022
NASA's Girl Power
- Utah STEM Action Center Conference, 2021
Implementing NGSS using NASA resources
- Oil Region Astronomical Society, 2021
Astronomy for Kids Age 12 or Younger
- Draper Library, 2020
Exoplanet's are AWESOME!
- Sarasota Florida Library, 2020
May the Fourth be with You!

PUBLICATIONS

- Science Teacher, **Using Historical Events from Science Education to Implement AI in Science Classrooms**, 2024
- Utah STEM Magazine, **James Webb Space Telescope and USU**, 2022
- American Seed Trade Association, *Gene Editing Lessons Plans*, 2022
- Utah STEM Magazine, **NASA and STEM**, 2021
- Astronomy Magazine, **NASA's Goliath Telescope**, 2021
- Utah STEM Magazine, **How a BYU Professor uses STEM to work with NASA**, 2020
- American Seed Trade Association, *TomatoSphere Lessons*, 2020

REFERENCES

AVAILABLE UPON REQUEST