

Curriculum Vitae

Jonathan L. Hall

Assistant Professor of Science Education
California Teacher Performance Assessment (CalTPA) Coordinator
Department of Teacher Education & Foundations
James R. Watson & Judy Rodriguez Watson College of Education
California State University, San Bernardino
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Education

- August 2018 Ph.D., Science Education
University of Central Florida
Dissertation Title: *A Phenomenological Study of the Experiences of Successful Women in Science Fields*
Dissertation Advisor: Dr. Malcolm B. Butler
Finalist for the NARST 2020 Outstanding Doctoral Research Award
- May 2014 M.Ed., College Student Personnel Administration
University of West Florida
- December 2010 B.S., Secondary Education for Broadfield Natural Science
Minor: Biology
Emphasis: Earth and Space Sciences
University of Wisconsin Oshkosh

Publications

Refereed Articles

14. Librea-Carden, M. R., **Hall, J. L.**, & Losoya, S. H. (2026). (dis)ability in science: How scientists with disabilities embody the nature of science as a human endeavor. *Research in Science Education*. <https://doi.org/10.1007/s11165-026-10364-3>
13. **Hall, J. L.**, Long, M. R., Seals, S., & Benz, P. (2026). Student perspectives on care-centered, peer-led STEM learning within a redesigned educational infrastructure at a primarily undergraduate institution. *Innovative Higher Education*. <https://doi.org/10.1007/s10755-026-09927-z>
12. Librea-Carden, M. L., & **Hall, J. L.** (2026). Functions of epistemic trust within the narratives of scientists with disabilities. *Pedagogies: An International Journal*, 1–27. <https://doi.org/10.1080/1554480X.2026.2691773>
11. **Hall, J. L.** & Butler, M. B. (In Press). Successful scientist, Black and a woman: A case study. *The Journal of Negro Education*.

10. Uy, F., McKinney, K., Bertolone-Smith, C., Reyes McGovern, E., Arredondo-Kim, A., Recinos, K., Fry Bohlin, C., Stratham, K., Chavez, R., Druken, B., Ichinose, C., Scott, M., Jaynes, J., Hamane, A., Perez, J., Partida, E. (Eddie) ., Pena, A., **Hall, J.**, Yin, X., ... Lyon, E. (2025, November 1). Proceedings of the California State University Elementary Mathematics and Science Professional Development Projects (2024–2025). <https://doi.org/10.5281/zenodo.17503131>
9. Swann, L., **Hall, J. L.**, Vaccaro-Garska, K., S. R., & Benz, P. (2023). Development and Implementation of an Undergraduate STEM Peer Coaching Program. *Journal of College Science Teaching*, 52(7), 43-49.
8. **Hall, J. L.**, & Butler, M. B. (2022). Much to do about identity: Successful women in science reflect on their school years. *School Science and Mathematics*, 122(6), 286-297. <https://doi.org/10.1111/ssm.12544>
7. **Hall, J. L.**, Whitaker, K. R., Seals, S., & Benz, P. (2022). Building a community of practice: A case study of introductory college chemistry students. *Journal of STEM Education Research*, 5, 458-478. <https://doi.org/10.1007/s41979-022-00073-7>
6. Gao, S., **Hall, J. L.**, Grysko, R., & Zygouris-Coe, V. I. (2022). Learning to teach science through an integrated disciplinary literacy science methods course: Examinations of elementary preservice teachers' lesson plans and reflections. *Electronic Journal for Research in Science & Mathematics Education*, 26(1), 33-55. <https://ejrsme.icrsme.com/article/view/21771>
5. **Hall, J. L.**, Campbell, T., & Lundgren, L. (2021). Re-designing infrastructure as a strategy for crafting coherence across three networks focused on the implementation of the next generation science standards. *Journal of Research in Science Teaching*, 58(7), 956-979. <https://doi.org/10.1002/tea.21688>
4. Wallace, M., Carmichael, B. J., & **Hall, J. L.** (2021, July 22). Dear STEM, It's time for some identity work. *American Association for the Advancement of Science*. <https://www.aaas-iuse.org/dear-stem-its-time-for-some-identity-work/>
3. Lundgren, L., Campbell, T., **Hall, J. L.**, Duffy, J., Ruede, M., Simmons, J., Rossi, A., Cole, L., Bay, N., Hollander, H., & Stockwell, T. (2021). Developing district-level infrastructure that honors local control while emphasizing collaboration. *PDS Partners: Bridging Research and Practice*, 16(1), 16-18.
2. Campbell, T., **Hall, J.**, McLaren, P., Greig, J., Elkins, S., & Hollander, H. (2020). Using 3D interim assessments to support coherence, equity, and shared understanding of learning. STEM Teaching Tools Initiative, Institute for Science + Math Education. Seattle, WA: University of Washington. <http://stemteachingtools.org/brief/65>.

1. **Hall, J. L.,** Gao, S., & Butler, M. B. (2017). Engaging all students in science practices through a cell modeling lesson. *Science Scope*, 41(4), 56-63. <https://www.nsta.org/science-scope/science-scope-december-2017/engaging-all-students-science-practices-through-cell>

Manuscript in Preparation

Hall, J. L., & Butler, M. B. *Transformational mentoring in science teacher education*. Prepared to be submitted to the *Journal of Science Teacher Education*.

Academic Positions

- | | |
|----------------|--|
| 2024 – Present | <p>California Teacher Performance Assessment Coordinator – California State University, San Bernardino, California</p> <ul style="list-style-type: none">● Facilitate communication between the California Commission on Teacher Credentialing and the College of Education, ensuring compliance and active representation in statewide CalTPA initiatives.● Synthesize CalTPA assessment data each semester into concise reports that inform program decisions and support accreditation requirements.● Lead faculty training and mentorship for TPA instructors, strengthening instructional quality and alignment with evolving state standards.● Deliver professional development sessions for university supervisors, resident teachers, and student teachers, improving district-university collaboration and candidate readiness.● Implement individualized remediation plans for candidates to enhance student success and improve overall program outcomes. |
| 2022 – Present | <p>Assistant Professor of Science Education – California State University - San Bernardino, California</p> <ul style="list-style-type: none">● Research STEM identity development, educational infrastructure, and college student STEM success● Teach STEM education courses to prepare teachers to facilitate inclusive and engaging lessons● Serve the college, university, and STEM education community through collaborative committee roles |
| 2019 – 2023 | <p>STEM Success Program Curriculum Specialist and Activity Director – University of West Florida - Pensacola, Florida</p> <ul style="list-style-type: none">● Re-design STEM introductory courses based on active learning and community development through strategic collaborations with course instructors● Evaluate project initiatives by developing and administering assessment tools to measure progress toward STEM Success metrics● Conduct research studies and disseminate results on active learning initiatives and community building through qualitative and quantitative deliverables● Develop and facilitate professional development on pedagogical best practices for STEM faculty and student leaders |

- Supervise academic support specialist and coaching specialist who oversee the activities of 70+ student workers to facilitate program strategies on time and within budget
- 2018 – 2019 Postdoctoral Research Associate – University of Connecticut – Storrs, Connecticut
- Planned, facilitated, and improved a series of professional development sessions focused on Next Generation Science Standards implementation, which supported the work of pre-service teachers, mentor teachers, district leaders, and interim assessment specialists
 - Taught a year-long graduate seminar to support math and science education majors in developing and completing their inquiry projects
 - Advised student professional growth through career development tools and strategies
 - Led research examining the educational infrastructure of multi-level working groups implementing the Next Generation Science Standards
- 2015 – 2018 Graduate Research Assistant – University of Central Florida – Orlando, Florida
- Conducted qualitative data analysis for several research projects
 - Researched course content to provide future science educators with current literature about best teaching practices
 - Collaborated with University of Central Florida Library staff to learn effective research techniques
- 2015 – 2018 Graduate Teaching Assistant – University of Central Florida – Orlando, Florida
- Supported instruction of the following science methods courses:
 - SCE 3310 - Teaching Science in Elementary School, 2 semesters
 - SCE 4360 – Science Instructional Analysis, 3 semesters
 - SCE 6315 – Methods in Elementary School Science, 1 semester
 - SCE 5325 – Teaching Middle School Science, 2 semesters
- 2016 – 2018 Data Collector and Analyzer - Education Development Center – Waltham, Massachusetts
- Collected and analyzed qualitative and quantitative data at multiple sites for a national research project titled [Science Fairs Under the Scope](#)
 - Analyzed the impact that participation in science fairs has on student interest in STEM careers; the effects that specific models of science fairs have on science proficiency; and costs and resources required to implement science fairs
 - Collaborated with a national team of personnel and experts working towards the goals of the project

External Grants

Exploring PK-5 Science Concepts and the Next Generation Science Standards (\$75,000). California State University, Office of the Chancellor, Educator and Leadership Programs. 2024-2025. Primary Investigator.

Women in STEM: Aim Higher (\$2,000). U.S. Marines. 2017-2018. Project Leader.

Internal Grants

The Experiences of International Successful Women in Science. California State University, San Bernardino College of Education Mini-Grant (\$6,000). 2023-2024. Primary Investigator.

Women in STEM: Aim Higher (\$3,500). University of Central Florida Office of the Quality Enhancement Plan. 2017-2018. Project Leader.

Women in STEM: Aim Higher (\$3,500). University of Central Florida Office of the Quality Enhancement Plan. 2016-2017. Project Leader.

Conference Presentations

Papers

Carden, M. L. & **Hall, J L.** (2026, July). *Stories of scientists with disabilities: Empowering understanding of the nature of science*. Paper session proposed for the biennial meeting of the International History, Philosophy, and Science Teaching Group, Lisbon, Portugal.

Hall, J L. & Carden, M. L. (2026, July). *Science identity development of successful scientists with disabilities*. Paper session proposed for the biennial meeting of the International History, Philosophy, and Science Teaching Group, Lisbon, Portugal.

Carden, M. L. & **Hall, J L.** (2026, April). Functions of epistemic trust within the narratives of scientists with disabilities. Paper session accepted for presentation at the annual meeting of NARST, Seattle, WA.

Carden, M. L., **Hall, J. L.**, & Losoya, S. (2025, January). Confronting failure takes creativity: Enactments of NOS by Scientists with (dis)Abilities. Paper session presented at the annual meeting of the Association for Science Teacher Education, Long Beach, CA.

Hall, J L., Carden, M. L., & Losoya, S. (2025). *Identity development of scientists with (dis)Abilities*. Paper session presented at the annual meeting of NARST, National Harbor, MD.

- Hall, J. L.** (2025, January). *Understanding STEM identity development through the stories of international women*. Work-in-progress poster session presented at the annual meeting of the Association for Science Teacher Education, Long Beach, CA.
- Hall, J. L., & Butler, M. B.** (2025, January). *Transformational mentoring in science teacher education*. Paper session presented at the annual meeting of the Association for Science Teacher Education, Long Beach, CA.
- Carden, M. L., **Hall, J. L.**, & Losoya, S. (2025, January). Confronting failure takes creativity: Enactments of NOS by Scientists with (dis)Abilities. Paper session presented at the annual meeting of the Association for Science Teacher Education, Long Beach, CA.
- Carden, M. L., **Hall, J. L.**, & Losoya, S. (2024, June). *Scientists with disabilities nature of science views: An empowering “truth” about science*. Paper session presented at the International Science Education Conference, Singapore.
- Hall, J. L.** (2024, April). *The experiences of Successful Brazilian women in science*. Paper presentation presented at the Brazilian Studies Association International Conference, San Diego, CA.
- Hall, J. L. & Carden, M. L.** (2024, March). Successful scientists with (dis)Abilities: Identities and views on the nature of science. Work-in-progress roundtable discussion at the annual meeting of NARST, Denver, CO.
- Hall, J. L.**, Long, M., Seals, S. R., & Benz, P. P. (2024, January). *Students’ perspectives of care-focused, peer-led team learning in introductory STEM courses*. Paper session presented at the annual meeting of the Association for Science Teacher Education, New Orleans, LA.
- Hall, J. L.** (2023, April). *Re-designing infrastructure to implement active learning in undergraduate chemistry*. Poster session proposal presented at the annual meeting of NARST, Chicago, IL.
- Hall, J. L.** (2023, January). *Identity work of successful women in science during their college years*. Paper session presented at the annual meeting of the Association for Science Teacher Education, Salt Lake City, UT.
- Hall, J. L.** (2023, January). *Navigating educational infrastructure for science teacher education focused on equity*. Poster of a themed set presented at the annual meeting of the Association for Science Teacher Education, Salt Lake City, UT.
- Hall, J. L.** (2021, April). *Figured worlds of successful women in science during their school years*. Paper session presented at the annual meeting of NARST, Virtual.

- Hall, J. L.,** Benz, P., & Seals, S. (2021, April). *Building a community of practice: A case study of introductory college chemistry students*. Paper session presented for the annual meeting of the American Education Research Association, Virtual.
- Hall, J. L.,** & Butler, M. B. (2020, March). *Identity work of successful women in science during their school years*. Paper session presented at the annual meeting of NARST, Virtual.
- Hall, J.,** Campbell, T., & Lundgren, L. (2020, January). *Exploring coherence across a multi-level networked improvement community focused on the implementation of the Next Generation Science Standards*. Paper session presented at the annual meeting of the Association for Science Teacher Education, San Antonio, TX.
- Zygouris-Coe, V., Grysko, R., **Hall, J.,** & Gao, S. (2019, October). *Pre-service elementary school teachers' learning about the role of literacy in developing students' science learning*. Proposal presented at the International Literacy Association Conference, New Orleans, LA.
- Gao, S., **Hall, J.,** Grysko, R., & Zygouris-Coe, V. I. (2019, April). *Learning to teach English Language Learners through a disciplinary literacy science methods course*. Paper session presented at the annual meeting of the American Education Research Association, Toronto, Canada.
- Gao, S., Zygouris-Coe, V. I., Grysko, R., & **Hall, J.** (2019, April). *Elementary preservice teachers learning to teach ELLs through a disciplinary literacy integrated science methods course*. Paper session presented at the annual meeting of NARST, Baltimore, MD.
- Hall, J. L.** & Butler, M. B. (2019, April). *Black and a woman: A case study of a successful scientist*. Paper session presented at the annual meeting of NARST, Baltimore, MD.
- Hall, J. L.** & Butler, M. B. (2018, June). *A phenomenological study of the experiences of successful women in science fields*. Paper session presented at the International Science Education Conference, Singapore.
- Butler, M. B., Freeman, T. B., **Hall, J. L.,** & Davis, K. (2018, March). *Planting seeds of social justice leadership in science*. Paper session presented at the annual meeting of NARST, Atlanta, GA.
- Hall, J.,** Boote, D., & Butler, M. (2018, January). *The experiences of successful women in STEM fields: A phenomenological study*. Paper session presented at the annual meeting of the Association for Science Teacher Education, Baltimore, MD.
- Hall, J. L.** (2018, January). *A phenomenological study of the experiences of successful women in science fields*. Dissertation session presented at the Three Minute Thesis Competition of the annual meeting of the Association for Science Teacher Education, Baltimore, MD.

Gelfuso, A., Damico, N., **Hall, J.**, & Gao, S. (2017, November). *Intentionally integrating literacy practices with science instruction: Examining one middle school science teacher's use of literacy practices during instruction*. Paper session presented at the annual meeting of the Literacy Research Association, Tampa, FL.

Gao, S., **Hall, J.**, & Butler, M. B. (2017, April). *Preparing secondary science preservice teachers to teach English Language Learners through a science methods course*. Paper session presented at the annual meeting of the American Education Research Association, San Antonio, TX.

Hall, J., & Gao, S. (2017, January). *Learning to teach ELL students science: Case studies of two preservice biology teachers' experiences*. Paper session presented at the annual meeting of the Association for Science Teacher Education, Des Moines, IA.

Thomas, K., **Hall, J.**, Freeman, T., & Butler, M. (2017, January). *Longitudinal effects of school demographics on student and school science achievement*. Paper session presented at the annual meeting of the Association for Science Teacher Education, Des Moines, IA.

Posters

Hall, J. L., Lundgren, L., & Campbell, T. (2023, April). Re-designing infrastructure to implement active learning in undergraduate chemistry. Poster session presented at the annual meeting of NARST, Chicago, IL.

Hall, J. L., Benz, P., Seals, S., Swann, L., Long, M., & Burkart, J. (2020, October). Tools and technologies used to facilitate active learning in general chemistry courses while adapting to changes due to COVID-19. Poster session presented for the University of Florida STEMpowered Faculty Symposium, Virtual.

Hall, J. L., Butler, M. B., Boote, D., Freeman, T., Morrison, D., & Blank, W. (2018, April). *A phenomenological study of the experiences of successful women in science fields*. Poster session presented at the University of Central Florida Graduate Research Forum, Orlando, FL.

Hall, J., & Boote, D. (2017, April). *An oral history of the Orlando Wetlands Park*. Poster session presented at the University of Central Florida Graduate Research Forum, Orlando, FL.

Hall, J., & Gao, S. (2016, April). *Learning to teach ELL students science: Case studies of two preservice biology teachers' experiences*. Poster session presented at the University of Central Florida Graduate Research Forum, Orlando, FL.

Workshops and Roundtables

Hall, J. L., Sung, Y., Smith, P., Tasova, H., & Yin, X. (2026, April). Crafting Coherence through Educational Infrastructure to Support Elementary Science Teaching. Roundtable discussion accepted for the annual meeting of the American Education Research Association, Los Angeles, CA.

Hall, J. L. & Carden, M. L. (2024, April). *Successful Scientists with (dis)Abilities: Identities and Views on the Nature of Science*. Work-in-progress roundtable session accepted for presentation at the annual meeting of NARST, Denver, CO.

Suriel, R. L., **Hall J. L.**, & Hecht, M. (2023, July). *Developing our Understanding for Teaching Environmental Science/Ecojustice*. Seminar at the 2023 SEEDS Summer Institute Without Walls. La Fortuna, Costa Rica.

Swann, L., & **Hall J. L.** (2022, July). *Planning and Reflecting Conversations Modeled by Undergraduate STEM Peer Coaches*. Presentation accepted for presentation at the annual meeting of the Coaching in Higher Education Consortium, Virtual.

Wallace, M. G., **Hall, J. L.**, & Carmichael, B. (2021, January). *Sparkling and sustaining critical consciousness in STEM students and departments*. Wondering discussion at the annual meeting of the Science Educators for Equity, Diversity, and Social Justice, Virtual.

Hall, J. L. (2019, October). *Empowering all students through self-documentation*. Presentation at the annual meeting of the Florida Association of Science Teachers, St. Augustine, FL.

Hall, J., & Butler, M. (2017, October) *A heart for homeostasis*. Presentation at the annual meeting of the Florida Association of Science Teachers, Orlando, FL.

Hall, J., & Blank, B. (2017, June). *Women in STEM: Aim higher program*. Roundtable discussion at the annual meeting of the Florida Association of Colleges and Employers, Tampa, FL.

Hall, J., Rediske, A., & Thomas, K. (2016, October). *Building models to learn about cells*. Presentation at the annual meeting of the Florida Association of Science Teachers, Orlando, FL.

Rediske, A., Thomas, K., & **Hall, J.** (2016, October). *Germs are everywhere! How hand washing keeps you healthy*. Presentation at the annual meeting of the Florida Association of Science Teachers, Orlando, FL.

Thomas, K., **Hall, J.**, & Rediske, A. (2016, October). *Modeling instruction for physical science*. Presentation at the annual meeting of the Florida Association of Science Teachers, Orlando, FL.

Latevola, K., & **Hall, J.** (2015, June). *Twenty-one ways your digital identity can affect your career*. Presentation at the annual meeting of the Florida Association of Colleges and Employers, St. Augustine, FL.

Latevola, K., & **Hall, J.** (2015, June). *Twenty-one ways your digital identity can affect your career*. Presentation at the University of Central Florida Student Development and Enrollment Services Institute, Orlando, FL.

University Teaching

California State University, San Bernardino

***EDMS 4110 – Assessment Seminar: CalTPA Cycle (online course)**

Knowledge, skills, and dispositions required for first-year teachers. Emphasis on content-specific and developmentally appropriate pedagogy, characteristics of English learners and students with special needs, and preparation to document parts of teacher performance expectations 1-6. Preparation and individual mentoring for CalTPA 1 and 2.

***EDMS 4107A – Supervised Student Teaching in Multiple Subjects.**

Structured, supervised student teaching experience in TK-6 setting.

+ EDMS 5105 - Science Teaching and Learning (hybrid course)

Introductory course in curriculum and pedagogy in science and health. Emphasis on implementing state adopted science and health curriculum standards in an elementary classroom, including designing instruction to integrate technology and meet academic needs of all learners such as English language learners and special needs students.

+ ESTM 6104 - Foundations of STEM Education (hybrid course)

Overview of philosophy, perspectives, and standards of Science, Technology, Engineering, and Mathematics (STEM) education that contribute to an integrated view of STEM education.

+ ESEC 6034 – Teaching Performance Assessment Seminar (online course)

This course guides the teacher candidate in preparing for and responding to the California Commission on Teacher Credential (CCTC) state mandated Teacher Performance Assessment required of all teacher candidates. This state mandated assessment evaluates what teacher candidates know and are able to do before being recommended for a teacher credential. In this course students will engage in practical exploration of and preparation for the TPA Cycles 1 and 2.

University of West Florida, Pensacola, Florida

***EDF 4442 – Learning Environments (fully online course)**

This course focuses on strategies for creating and maintaining effective learning environments with activities related to building relationships, organizing groups, developing and implementing rules and procedures, teaching effectively, utilizing positive behavior support strategies, and implementing individual behavioral interventions.

***EDF 3234 – Applied Foundations of Education (fully online course)**

The course focuses on principles of growth and development from birth through adolescence. Students examine personal, social, and moral development as well as cognitive learning and motivation. The course contains an emphasis on learners from diverse backgrounds and with special needs.

+EDG 6415 – Issues in Classroom Management

This course is designed for educators with existing capacity regarding classroom management and is intended to advance their understanding and develop a knowledge of systematic models of classroom management. The content focuses on shaping teacher behaviors and structuring the classroom for success. Additionally, the focus will be placed on recognizing the various and

competing philosophies of classroom management and the benefits of using a systematic model within a classroom or school.

***SLS 1109 – Academic Foundations Seminar**

The course introduces students to campus resources and provides skills and tools that will help them to be successful. Faculty will use High Impact approaches to getting students engaged and connected on campus.

University of Connecticut, Storrs, Connecticut

+EDCI 5092 Internship (STEM Section)

This course focuses on implementing and applying theory in the student's area of specialization. This course is open primarily to master's and sixth-year students.

+EDCI 5094 Advanced Seminar (STEM Section)

This course covers an analysis of the issues and research in STEM education. It is open primarily to master's and sixth-year students.

University of Central Florida, Orlando, Florida

+SCE 7146 - Professional Issues in Science Education (fully online course)

This doctoral seminar examines issues and forces that shape American science education related to ethics and professional conduct. Science education students successfully learn to navigate current and emerging issues as researchers. This course emphasizes mentorship, authorship, honesty, and responsibility to colleagues, society, and the common good of humankind.

+ISC 6146 – Environmental Education for Educators (fully online course)

There is an emphasis on the importance of environmental education in the school curriculum in this course. Facilitator training in national environmental education programs is included.

***MHS 2330 – Career Planning**

This course focuses on career theory, career choice, decision-making, interpersonal communication, professionalism, workplace ethics and culture, and boundary-making. Students engage in lessons to understand and demonstrate key competencies of career readiness.

***SCE 3310 – Teaching Science in Elementary School**

In this course, science education concepts are discussed. Students also learn how to organize their instruction and evaluation procedures are covered.

***SLS 1501 – Bridging Success in the University and Professional Life**

This course assists students' transition to the university by developing important academic, life, and study skills that promote their success and persistence through the first year and beyond.

+ Graduate Course

*** Undergraduate Course**

Natural Science Teaching Experience

Fall 2013 Teaching Assistant – University of West Florida - Department of Biology
 – Pensacola, Florida

ZOO 1010: General Zoology

- Developed and presented lectures to 21 General Zoology undergraduate students
- Demonstrated effective laboratory techniques to facilitate student learning
- Assessed students' knowledge through tests that evaluated their ability to display an understanding of the course content
- Prepared the laboratory for students by dissecting specimens, preparing slides, and organizing displays

P-12 Teaching

2015

Tutor – A to Z In-Home Tutoring – Orlando, Florida

Math and Science Lessons

- Tutored foster children of low-income families through partnerships with school districts, local government, and non-profit organizations
- Utilized hands-on learning methods to engage students in lessons
- Recorded student progress to assess student development in their progress to achieving learning objectives

2011 – 2012

Science Teacher – Destiny High School – Milwaukee, Wisconsin -

Biology and Human Anatomy and Physiology

- Planned, designed, and implemented relevant natural science lessons for 260+ under-resourced, minority students
- Conducted 45+ parent-teacher conferences to gain insight into the parents' perspectives and feelings concerning their children's education
- Incorporated hands-on experiences such as dissections and model creation, which allowed students to construct meaning of the natural world while learning how to operate scientific tools
- Created low-budget learning materials to accommodate the information provided by the class textbook
- Evaluated curriculum to maintain alignment with Wisconsin Department of Instruction learning standards
- Prepared students for the ACT by beginning each lesson with a sample question regarding science
- Employed differentiated instruction to meet the needs of all types of learners by providing various assessment options and by differentiating the instruction
- Supervised student lunches and morning meetings to develop rapport with students

Summers 2011 and
2012

Science Teacher – Beaver Dam High School – Beaver Dam, Wisconsin
Physical Science

- Collaborated with a colleague to develop a curriculum to guide the development of objectives and lesson plans

- Created and delivered engaging physical science lessons for at-risk students
 - Co-taught with several special education teachers to accommodate students with special needs
- Spring 2011 Substitute Teacher – Appleton Area School District – Appleton, Wisconsin
All Courses
- Provided instruction to a school district composed of 39 schools for all subjects and ages to gain a broader perspective of the district's functions
 - Implemented the Positive Behaviors Interventions and Supports System to remain consistent with the district's disciplinary procedures
 - Recorded students' performance to inform the teacher of the day's events
- Fall 2010 Student-Teacher – Wilson Middle School – Appleton, Wisconsin
General Science
- Selected as 1 of the 16 student teachers for the Teacher in Residency Program that provided opportunities to reflect with administrators and student teachers while spending 18 weeks at one middle school
 - Provided individual and team instruction to 130 eighth-grade science students, including 28 students with Individual Education Programs
 - Incorporated hands-on experiences such as dissections and the use of microscopes, which allowed students to personally construct meaning of the natural world while learning how to operate scientific tools
 - Participated in administrative meetings to improve classroom management procedures and to learn the Positive Behaviors, Interventions, and Supports System
 - Co-facilitated 46 parent-teacher conferences to gain insight into the parents' perspectives and feelings concerning their children's education
 - Supervised student lunch, assemblies, athletic events, and tutored for the after-school program to create a deeper rapport with students
- Spring 2009 Clinician – Oshkosh East Charter High School – Oshkosh, Wisconsin
Environmental Issues
- Educated high school students who were academically at-risk about current environmental issues
 - Utilized interactive activities and scientific inquiry to spark interest in the students, which allowed them to develop an understanding of the importance of their environment
 - Employed the love and logic model to assist in the development of social behavior and to manage the classroom

- Summer 2008 Tutor/Resident Assistant – University of Wisconsin Oshkosh Precollege Program – Oshkosh, Wisconsin
Science and Math
- Role-modeled and supported 22 minority students, ages 8 to 18, from urban areas aiming to pursue STEM degrees
 - Collaborated with teachers to tutor students in the subject areas of science and math
- Fall 2006 Teacher's Aide – Webster Stanley Elementary School – Oshkosh, Wisconsin
All Courses
- Tutored a student with attention deficit disorder in all subject areas
 - Aided an elementary teacher with instruction in all subject areas to 17 third-grade students

Teaching License

Wisconsin Early Adolescence through Adolescence: Secondary Education, Broadfield Natural Science (#73-601), Biology (#73-605), and Earth Science (#73-635). 1/1/2010 through 6/30/2016.

STEM Success Workshops

- 2019 - 2022 STEM Success Leadership Workshop, University of West Florida
- Developed and facilitated 4 workshops for more than 100 STEM peer leaders on metacognition, critical consciousness, and growth mindset during each semester
 - Virtual and in-person modalities were utilized to facilitate each hour-long workshop
- 2019 - 2022 Success in STEM, University of West Florida
- Developed and facilitated a five-session workshop series for more than 250 STEM undergraduate students to surface success strategies in STEM on the following topics: what makes STEM different, metacognition, time management, strategic collaborations, and finishing strong
 - Virtual and in-person modalities were utilized to facilitate each hour-long workshop
- 2017 - 2019 Women in STEM: Aim Higher, University of Central Florida
- Developed and facilitated *The Women in STEM: Aim Higher* program to encourage women to pursue STEM fields by informing them of the wide range of STEM-related academic and career opportunities
 - Facilitated networking opportunities between more than 200 STEM students, successful corporate and industry female professionals, University of Central Florida faculty, and STEM-focused student support services through an in-person, half-day program

Invited Guest Lectures and Workshops

Hall, J. L. (2025). Mitigating Bias to Promote Diversity in Science, Technology, Engineering, and Mathematics. Federal University of Ceará, Fortaleza, Ceará, Brazil.

Hall, J. L. (2025). Insights for Leaders Preparing Future Generations From a Science Educator/Researcher. University of International Integration of Afro-Brazilian Lusophony, Redenção, Brazil.

Hall, J. L. (2023). Dinner and a STEM Project. California State University, San Bernardino.

Hall, J. L. (2023). The experiences of successful women in science. California State University, San Bernardino: Third Annual Diversity, Equity, and Inclusion Event. San Bernardino, CA.

Hall, J. L. (2023). The experiences of successful international women in science. Watson College of Education: Implementation of DEI Research to Teaching Event. San Bernardino, CA.

Hall, J. L. (2023). Four lessons from a White science educator/researcher working in Black and Brown educational spaces. Southeast Regional Noyce Conference. Mobile, AL.

Hall, J. L. (2023). Fireside chat: Questions for a White science educator who has worked in Black and Brown Spaces. Southeast Regional Noyce Conference. Mobile, AL.

Brand, B., Barnes, Z., **Hall, J. L.**, Guffey McCorrison, K., & Moton, K. (2023). Dinner and panel discussion: STEM Counterspaces. Southeast Regional Noyce Conference. Mobile, AL.

Hall, J. L. (2021). *Publication Tips*. An invited guest lecturer in Disciplinary Literacy in Science Doctoral Seminar (RED 7745). University of Central Florida, College of Community Innovation and Education. Orlando, FL (Online).

Hall, J. L. (2016-2018). *Energy production and models*. Invited workshops facilitated in elementary and secondary science methods courses. University of Central Florida College of Education and Human Performance. Orlando, FL.

Hall, J. L. (2016-2018). *Integrating technology into the science classroom*. Invited workshops facilitated in elementary and secondary science methods courses. University of Central Florida College of Education and Human Performance. Orlando, FL.

Hall, J. L. (2016-2018). *Plant and animal cell models*. Invited workshops facilitated in elementary and secondary science methods courses. University of Central Florida College of Education and Human Performance. Orlando, FL.

Service

Professional Service

Spring 2022 to Present	Oversight Committee Member – Association of Science Teacher Education. • Meet monthly to ensure the overall health of a science education professional association of more than international 500 members
October 2019 to Present	Committee Member – Continental and Diasporic Africa in Science Education (CADASE) Research Interest Group • Lead the facilitation of the CADASE plenary and poster session through monthly committee meetings • Recommend to the steering committee a plenary speaker for the NARST annual meeting • Facilitate virtual functions of CADASE meetings for the annual NARST conference
August 2022 to Present	International Workshop Developer and Facilitator – Science Educators for Equity, Diversity, and Social Justice • Plan and develop international STEM education workshop focused on diversity and equity issues • Collaborate with international scholars in STEM education to implement the workshop • Create a website to disseminate workshop information
Spring 2024 and Spring 2025	Proposal Review Panelist – National Science Foundation
January 2020 to February 2023	Mentor, Chair, and Member of the Social Media and Website Committee - Science Educators for Equity, Diversity, and Social Justice (SEEDS) • Re-design the association’s website to update the style and content presentation • Collaborate with other committees to ensure that association messaging is accurate and disseminated in a timely fashion • Evaluate website service platforms to facilitate the functionality of the growing SEEDS membership
September 2020 to February 2023	Mentor, Chair and Member of the Program Committee – Science Educators for Equity, Diversity, and Social Justice • Develop an online system for receiving and evaluating program proposals • Write the call for proposals to invite educators to share their work and insights focused on equity, diversity, and social justice in science education • Evaluate reviewer feedback and make accept or reject proposal decisions to build the conference program

Dissertation Committee Member

- 2024 Raquel Fleming. African American Male Students' Engagement with Science: Insights from General and Special Education Participants. Teachers College, Columbia University, New York, New York
- 2022 – 2023 Stephen Petit - *Using CHAT to examine how cultural assumptions within a serious video game influences engagement for middle school girls.* University of Central Florida, Orlando, Florida.

Manuscript Reviewer

- 2022 – present *Innovations in Science Teacher Education - Editorial Review Board Member - 5 manuscripts reviewed*
- 2022 - present *Journal of Science Teacher Education - Guest Reviewer - 7 manuscripts reviewed*
- 2022 *School Science and Mathematics – Guest Reviewer*
1 manuscript reviewed

Conference Proposal Reviewer

- 2017 - 2024 NARST
27 paper proposals reviewed
- 2021 - 2022 Science Educators for Equity Diversity and Social Justice
9 proposals reviewed
- 2022 American Education Research Association (Invited)
6 paper proposals reviewed
- 2022 International Organization for Science and Technology Education
5 paper proposals reviewed
- 2017, 2018,
2020, 2023, & 2024 Association for Science Teacher Education
19 paper proposals reviewed

University Service

- January 2024 to Present California Teaching Performance Assessment Coordinator – San Bernardino, California
- Collect and approve TPA permission forms
 - Analyze assessment data to guide instructor training and report to leaders of the college
- August 2023 to present Elections Officer – California State University, San Bernardino – San Bernardino, California

- Conduct elections for more than 15 committee positions at college and university levels
 - Report to committee chair elected committee members
- January 2016 to August 2018 Leader – Christian Grads Fellowship of the University of Central Florida – Orlando, Florida
- Designed and facilitated weekly meetings using a curriculum focused on the spiritual development of graduate students
 - Collaborated with mentors to gain insights on how to lead the fellowship
- June 2013 to June 2014 President – University of West Florida Chi Sigma Alpha Student Affairs Honor Society – Pensacola, Florida
- Organized, planned, and implemented biannual induction ceremonies to honor new inductees
 - Utilized innovative technologies, such as Google Forms, to gather information from the members of the honor society
- August 2013 to May 2014 Committee Member – University of West Florida Common Ground - Pensacola, Florida
- Educated staff, students, and faculty about diversity issues through informative modules and engaging activities
 - Developed and implemented a university food pantry for students who needed assistance
- January 2013 to May 2014 Team Member – University of West Florida Assessment Team – Pensacola, Florida
- Reviewed and critiqued the assessment plans of university departments to improve the quality of students' experiences
 - Promoted a culture of assessment by educating colleagues about innovative methods to evaluate their programs
- January 2010 to December 2010 Treasurer and Member – University of Wisconsin Oshkosh Wisconsin Society of Science Teachers – Oshkosh, Wisconsin
- Managed the budget and guided discussions on financial concerns
 - Participated in discussions and workshops about inquiry-based science, hands-on activities, and differentiated instruction

Community Service

- CRU Overseas Mission Faculty Volunteer – 2019, 2024, and 2025
- Summit Church niceSERVE Volunteer – 2015, 2016, and 2017
- Alternative Spring Break Volunteer – 2008, 2009, 2010, and 2011
- Special Olympics Volunteer – 2007, 2008, and 2009
- Science Olympiad Volunteer – 2007

Current Membership in Professional Organizations

Updated 5/18/2026

- Brazilian Studies Association
- NARST

Science Education Internships

- 2016 – 2017 Research Intern – Orlando Wetlands Park – Christmas, FL
- Interviewed participants who impacted the historical development of the Orlando Wetlands Park
 - Synthesized data into a historical narrative to be displayed in the park's education center
- Summer 2008 Science Inquiry Project Intern – University of Wisconsin Oshkosh Education Department – Oshkosh, WI
- Collaborated with biology and science education faculty mentors to investigate the bacteria growth on reused, disposable water bottles
 - Utilized scientific inquiry and developed an experiment to generate evidence regarding a biological phenomenon

Scientific Fieldwork

- January 2009 Geology Field Trip – University of Wisconsin Oshkosh Geology Department – Multiple sites in a trip from Wisconsin to Missouri
- Developed and presented educational materials about elephant rock formations
 - Utilized geological tools to extract raw materials for later study
- March 2007 Biology Field Trip – University of Wisconsin Oshkosh Biology Department – Everglades, FL
- Hiked nature trails, canoed rivers, and snorkeled at John Pennekamp Coral Reef State Park to learn about the diversity in the wildlife of the Everglades
 - Created daily journal logs and utilized scientific inquiry to realize the diverse population of species

College Student Affairs Administration Employment History

- 2014 – 2015 Career Development Coordinator – University of Central Florida Career Services – Orlando, Florida
- Collaborated with faculty to facilitate the career development of STEM students by informing them about services offered by Career Services
 - Created resume resource specialized for engineering students by partnering with Lockheed Martin managers and Career Services staff
- 2013 – 2014 Graduate Assistant – University of West Florida Dean of Students Office – Pensacola, Florida
- Conducted educational conferences with students who violated the Student Code of Conduct to gain an understanding of their perspective and advise them about successful behaviors
 - Established and implemented operations of the campus food pantry to support students in need of assistance

- 2012 – 2013 Graduate Assistant – University of West Florida Student Transition Programs – Pensacola, Florida
- Interviewed, trained, and supervised 11 undergraduate students who served as academic mentors and lived in two living-learning community residence halls that housed roughly 600 residents
 - Advised peer academic mentors about their professional, educational, and emotional development
- 2013 Graduate Assistant – University of West Florida Career Services Pensacola, Florida
- Collaborated with faculty to provide students with networking presentations during scheduled class periods
 - Bridged connections between career program proposals and the University of West Florida's Strategic Plan to provide a rationale for future activities

College Students Affairs Administration Workshops

- 2013 - 2015 Career Development Workshops, University of Central Florida and University of West Florida
- Presented workshops for undergraduate and graduate students to facilitate career development on the following topics: job search, resume writing, networking, interviewing, salary negotiation, and navigating job offers
- 2013 - 2014 Moral Development Workshop, University of West Florida
- Researched and developed a curriculum for a class focused on the moral development and retention of students who have violated the University of West Florida Student Code of Conduct
- 2009 - 2010 Policy Rationale Workshops, University of Wisconsin-Oshkosh
- Developed and facilitated workshops that taught more than 100 staff members about policy rationale by using self-scripted movies and interactive presentations to teach staff members professional confrontation skills

Awards, Honors, and Certificates

Academic

- Summer Research Fellowship (\$3,000) - California State University, San Bernardino – Summer 2023
- Teaching Skills Study Award (\$1,000) – California State University, San Bernardino – Fall 2022
- Summer Research Fellowship (\$4,000) – California State University, San Bernardino - Summer 2022
- Travel Award (\$750) – Hal Marcus College of Science and Engineering Resource Allocation Committee – Spring 2021

- Equity and Diversity Travel Grant (\$1,000) – University of West Florida Office of Equity and Diversity – Fall 2019
- Travel Award (\$500) - International Science Education Conference – Summer 2018
- Presentation Fellowship – University of Central Florida – Spring 2017 and Spring 2018
- Certificate in Grantsmanship – University of Central Florida - Spring 2016
- President of University of West Florida Chi Sigma Alpha Student Affairs Honor Society – University of West Florida – Fall 2013 – Spring 2014
- Case Study Winner of the Student Affairs Symposium – University of West Florida – Fall 2013
- University Dean's List – University of Wisconsin Oshkosh – Spring 2010
- Honor Roll – University of Wisconsin Oshkosh - Fall 2006, Spring 2007, Spring 2008, and Fall 2009
- Wisconsin Scholars Scholarship – University of Wisconsin Oshkosh – Fall 2009

College Student Affairs Administration

- Buzz Worthy Award – University of Central Florida Student Development and Enrollment Services Institute – Orlando, FL - 2015
- Star Programmer – University of Wisconsin Oshkosh Residence Life – Oshkosh, WI – 2008 and 2009
- Hall of the Year Award – University of Wisconsin Oshkosh Residence Life – Oshkosh, WI – 2008 and 2009
- Rob Buzaitis Scholarship – University of Wisconsin Oshkosh United Students in Residence Halls – Oshkosh, WI – 2010