

Jessica R. Taylor, Ph.D.

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Summary

Proactive professional mathematical educator with 8 years of work experience and a proven knowledge of general pedagogy, and quantitative, qualitative, and statistical analysis.

Skills

- Successful active learning activity development
- Reflective assessment of teaching skills
- Effective verbal and written communication
- Engaging lesson plan construction
- Robust analytical thinking skills
- Polished interpersonal & public speaking skills
- Proficient critical thinking skills
- Strong work ethic

Experience

University of Michigan: Wolverine Pathways Program

September 2023 - PRESENT

Math Teacher (Online)

Remote: Serves Detroit, Southfield, Ypsilanti and Grand Rapids, Michigan

- Confront “barriers that limit the college and career aspirations of high motivated, [yet] under-resourced” 7th – 12th grade students.
- Create a rich learning environment that fosters critical thinking and group communication skills.
- Assist in the WPP mission to challenge students through rigorous curriculum whilst receiving ample community and educational support.

Merced College

August 2023 - PRESENT

Adjunct Professor

Merced, CA

- Similar tasks as “Lecturer” position below.

University of California, Merced

June 2019 - August 2020, June 2023 - August 2023

Lecturer

Merced, CA

- Delivered mathematics and statistics course lectures using modern technology to enhance student comprehension.
- Created instructional and lecture plans for classes in compliance with course objectives.
- Selected innovative teaching methods to deliver course content.
- Developed lectures to accommodate for different learning styles, maximizing students' comprehension.
- Assisted students during office hours to review material, explain exam questions and answer concerns.
- Identified areas of difficulty for students, developing additional resources for review.
- Tailored lectures to meet student needs, emphasizing skills and concepts necessary for professional and academic success.
- Explained concepts through variety of methods, utilizing visual aids and analogies for key material.

Lawrence Livermore National Laboratory

August 2020 - October 2022

Postdoctoral Researcher

Livermore, CA

- Designed statistical protocols to perform instrumentation relative to research procedures.
- Searched pertinent scientific literature to support efforts with empirical data.
- Communicated findings to grow research efforts, enabling improved workflows.
- Collected and analyzed data to maintain computer database of research statistics.
- Prepared scientific and technical reports along with outcome findings.
- Documented analytics information that had been gleaned from all research.

University of California, Merced

August 2015 - May 2019

Teaching Assistant, Teaching Fellow: Instructor of Record, & Graduate Researcher

Merced, CA

- Graded assignments and tests and documented results into filing systems.
- Helped professors with material generation, lesson plan development, class preparation, scheduling, exam distribution and student mentoring.
- Helped students master learning concepts through one-on-one and small group tutoring.
- Assisted professors with lesson preparation and curriculum implementation.
- Identified sources of funding to submit grant applications and prepare research proposals.
- Developed work plans in accordance with research objectives.
- Studied and analyzed completed research to write technical papers for faculty review and journal submission.
- Collected data by executing planned research protocols.
- Presented findings to colleagues during academic meetings and conferences.

Education and Training

University Of California, Merced

May 2019

Doctor of Philosophy (Ph.D.): Applied Mathematics

Merced, CA

University of California, Merced

August 2017

Master Of Science (M.Sc.): Applied Mathematics

Merced, CA

University of California, Merced

May 2015

Bachelor Of Science (B.Sc.): Applied Mathematics, Physics Emphasis

Merced, CA

Languages

English:

Native/ Bilingual

French:

Limited

Haitian Creole:

Elementary