**jennifer degraff moses**

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**EDUCATION**

UNIVERSITY OF Florida Gainesville, FL

Ph.D., Curriculum and Instruction, Educational Technology Spring 2025

Developing and Evaluating Online Learning Materials for Clinical Research Coordinators

Kara Dawson, PhD

University of Florida Gainesville, FL

M.Ed., Curriculum and Instruction, Educational Technology Summer 2021

University of Florida Gainesville, FL

Graduate Certificate, Forensic Science, DNA and Serology Spring 2016

University of Florida Gainesville, FL

B.S, Biology Summer 2014

Santa fe college Gainesville, FL

A.S, Biotechnology Spring 2011

**AWARDS AND HONORS**

Superior Accomplishment Award, University of Florida, 2021

Provost Research Award, Santa Fe College, 2011

James Gregg Honors Scholarship, Santa Fe College, 2011

**RESEARCH EXPERIENCE**

UNIVERSITY OF Florida Gainesville, FL

Doctoral Researcher, Educational Technology 2021-Present

Published a comprehensive rubric for designing asynchronous online courses, incorporating trauma-informed pedagogical strategies to enhance student engagement, awareness, community, clarity, consistency, and flexibility.

Published as the third author in conducting a comprehensive systematic review on microlearning, offering valuable insights into its effectiveness and potential applications.

Contributing as second author in in conducting a comprehensive systematic review of empathy in online learning environments.

Foundation for Applied molecular evolution Alachua, FL

Research Assistant 2013-2018

Performed research on non-standard DNA nucleotides for projects funded by NSF, NIH, and DARPA. Focus of this project was to insert, detect, and maintain non-standard DNA in *E. coli* through protein engineering and genetic mutations.

Published an article focused on developing assays to detect phosphorylation of non-standard nucleotide.

Published an article on the discovery of a kinase variant that synthesizes monophosphates of non-standard nucleosides

Published an article on the interaction of polymerase with wobble mismatches of non-natural genetic systems.

University of florida Gainesville, FL

Laboratory Assistant 2013-2018

Performed research on genetic mutations in maize by performing DNA extractions and PCR to determine location of mutations. These locations were determined by using SSRs to locate and measure distance of transposon to genetic markers.

**RESEARCH INTERESTS**

Innovative Approaches to Workforce Development

Integration of Universal Design for Learning

Utilizing Trauma-Informed Practices in Technology-Mediated Education

Designing Technology-Enhanced Learning Environments for Vulnerable Populations

Technological Strategies for Enhancing Competency and Engagement

**professional experience**

UNIVERSITY OF FLORIDA, CLINICAL AND TRANSLATIONAL SCIENCE INSTITUTE

2022-Present

*Associate Director of Communications*

* Develops and executes a strategic communication plan targeting both scientific and general audiences.
* Leads a team in creating compelling content for various channels, including social media, web, newsletters, and press releases.
* Works closely with scientific and medical staff to translate complex research findings into easily understandable language for diverse stakeholders.
* Collaborate with interdisciplinary teams to promote clinical research and education initiatives.
* Manage the production of multimedia content, such as videos, infographics, and podcasts that showcased the institute's groundbreaking work.
* Plays a key role in crisis communication planning and execution, maintaining transparency and trust with key stakeholders.
* Dedicated to fostering a culture of inclusion, embracing diversity, and promoting an environment where every individual’s unique perspective and talent are valued and celebrated.

UNIVERSITY OF FLORIDA, CENTER FOR UNDERGRADUATE RESEARCH

2019-2022

*Assistant Director*

* Oversight and management of undergraduate research scholarship programs, 250 scholars
* Organize annual symposia for over 500 undergraduate presenters
* Maintain a comprehensive database of research opportunities of interest to UF students
* Manage the CUR website serving as webmaster
* Manage CUR social media (design, deliver, and analyze content)
* Manage CUR faculty and student newsletter
* Assist with CURE course development and delivery
* Manage student organization including events, project, and supplies
* Mentor and provide support for undergraduate researchers in all disciplines and from all backgrounds
* Provide tier two fiscal support for office
* Develop, design, and evaluate online resources for undergraduate researchers
* Develop, design, and evaluate online training for undergraduate researchers

*Editor, Journal of Undergraduate Research*

2022-2023

* Providing guidelines to authors for preparing and submitting manuscripts
* Providing a clear statement of the Journal’s policies on authorship criteria
* Treating all authors with fairness, courtesy, objectivity, honesty, and transparency
* Establishing and defining policies on conflicts of interest for all involved in the publication process, including editors, staff (e.g., editorial and sales), authors, and reviewers
* Protecting the confidentiality of every author’s work
* Establishing a system for effective and rapid peer review
* Making editorial decisions with reasonable speed and communicating them in a clear and constructive manner

BRAMMER BIO

2017-2019

*Tech Transfer Specialist/Technical Project Lead*

* Support technology transfer and commercialization activities, and manufacturing as necessary.
* Represent process engineering on tech transfer and commercialization activities. Use historical data and other sources of process data to extract and chart relevant process parameters, as required to support tech transfer activity.
* Perform facility fit for evaluation of equipment capability and identify changes needed in the process development to enable facility fit.
* Anticipate and resolve key technical scale-up related issues, to ensure manufacturing equipment and systems can perform as required for new products. Evaluates risk appropriately, and communicates effectively and timely.
* Understand critical process parameters and how the equipment impacts key process parameters.
* Support Process Team as required, during commercialization or new product transfers, by spending time on the manufacturing floor, responding to questions, sharing process knowledge.
* Provide guidance and leadership to scientists and laboratory personnel on process team. Build relationships with internal and external customers and partners.
* Understand facility throughput, and bottlenecks, to continuously drive productivity improvement projects.
* Support creation of process model of site throughput, and capability. Understand and communicate manufacturing capacity as required to site leadership.
* Assign tasks to scientists to support delivery of new products.
* Perform all job functions with adherence to company policies, in a cGMP manner, safely and ethically

THE VILLAGE

2009-2010

*Certified Nursing Assistant*

* Certified Nursing Assistant (CNA) License, State of Florida October 2009
* CPR and First Aid Certified
* Trained in medication administration and patient care protocols
* Committed to maintaining patient dignity and fostering a compassionate environment

AMERICAN EAGLE OUTFITTERS

2001-2009

*Store Manager*

* Completed store operational requirements by scheduling and assigning a staff of 30-60 employees.
* Maintained staff by recruiting, selecting, orienting, and training employees.
* Maintained store staff results by coaching, counseling, and disciplining employees: planning, monitoring, and appraising job results
* Achieved financial objectives by preparing an annual budget, scheduling expenditures, and analyzing variances.
* Identified current and future customer requirements by establishing rapport with potential and actual customers.
* Marketed merchandise by studying advertising, sales promotion, and display plans.
* Maintained operations by initiating, coordinating, and enforcing program, operational, and personnel policies and procedures.
* Contributed to team effort by accomplishing related results as needed.

**tECHNICAL sKILLS**

* Web Development (HTML, CSS, JavaScript, WordPress)
* Search Engine Optimization (SEO)
* Social Media Analytics and Advertising Platforms
* Marketing Automation Tools
* Data Analysis (Excel, R, SPSS, RapidMiner)
* UI/UX Design (Adobe XD)
* Prototyping (Figma)
* Project Management
* Media and Content Creation (Microsoft Office Tools, Canva, Adobe Illustrator, Articulate 360 Suite)
* Learning Management Systems (Canvas, LearnDash, Reach 360)
* Gamification and Interactive Learning Technologies
* Technical Writing and Documentation
* Photography and Photo Editing (Adobe Lightroom, Adobe Photoshop)
* Videography (Adobe Premiere, Final Cut)
* Augmented Reality (AR) and Virtual Reality (VR) Development

**Publications**

**Moses, J.,** Bayne, H., & Moore, R. (2023). Guiding Course Development: Trauma-Informed Rubrics for Asynchronous Online Learning Environments. *The Journal of Applied Instructional Design*. https://doi.org/10.59668/722.13025

Moore, R. L., Hwang, W., & **Moses, J. D**. (2023). A systematic review of mobile-based microlearning in adult learner contexts. *Educational Technology & Society, 27*(1), 137-146.

Matsuura M Matsuura, Shaw R, **Moses J**, Kim HJ, Kim MJ, Kim MS, Hoshika S, Karalkar N, and Benner S.(2016) Assays to Detect the Formation of Triphosphates of Unnatural Nucleotides: Application to Escherichia coli Nucleoside Diphosphate Kinase. *ACS Synthetic Biology 5* (3), 234-240 DOI: 10.1021/acssynbio.5b00172

Matsuura M, Winiger C, Shaw R, Kim MJ, Kim MS, Daugherty A, Chen F, Moussatche P, **Moses J**, Lutz S, and Benner S. (2016) A Single Deoxynucleoside Kinase Variant from Drosophila melanogaster Synthesizes Monophosphates of Nucleosides That Are Components of an Expanded Genetic System. *ACS Synthetic Biology*, American Chemical Society DOI: 0.1021/acssynbio.6b00228

Winiger C, Kim MJ, Hoshika S, Shaw R, **Moses J**, Matsuura M, Gerloff D, and Benner S. (2016) Polymerase Interactions with Wobble Mismatches in Synthetic Genetic Systems and Their Evolutionary Implications. *Biochemistry 55* (28) 3847-3850 DOI:10.1021/acs.biochem.6b00533

**presentations**

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| Moses, J. D., Hwang, W., & Moore, R. L. (2023, October 15). *CanYou [Learn with] Me Now?: A Systematic Review of Mobile-based Microlearning* [Oral Presentation]. Association for Educational Communications and Technology, Orlando, FL. |
| Moses, J. D., Bayne, H., & Moore, R. L. (2023, October 15). *Presenting a Trauma-informed Rubric for the Asynchronous Online Course Development* [Oral Presentation]. Association for Educational Communications and Technology, Orlando, FL. |
| Moses, J. D., & Leonard, M. (2022). *Iterative Design of a GenZ-Friendly Undergraduate Responsible Conduct of Research Module Series* [Oral Presentation]. Connect UR by the Council on Undergraduate Research, Washington, DC. |
| Moses, J. D., Kao, I., Francois, M., & Opoku, R. (2022, March). *Navigating IRB for Undergraduates* [Roundtable]. College of Education Research Symposium, Gainesville, FL. |
| Moses, J. D. (2022a). *Development of Asynchronous Online Undergraduate Research Mentor and Mentee Training Modules* [Oral Presentation]. International Mentoring Academy Conference, Gainesville, FL. |
| Moses, J. D. (2021). *Using Canvas to Manage Programs and Create Community* [Oral Presentation]. Florida Statewide Symposium, Gainesville, FL. |
| Moses, J. D. (2020c). *Transitioning an In-person Symposium to a Virtual Experience* [Oral Presentation]. Florida Undergraduate Research Association Virtual Brown Bag Conversations. |
| Moses, J. D. (2020b). *Playing to Your Strengths* [Oral Presentation]. Florida Undergraduate Research Conference, Fort Myers, FL. |
| Moses, J. D. (2020a). *Design and Implementation of an Undergraduate RCR Course* [Oral Presentation]. Florida Statewide Symposium, Daytona Beach, FL. |
| Moses, J. D. (2015). *What is a Biotechnologist?*[Oral Presentation]. Stemfest, Santa Fe College, Alachua, FL. |

**posters**

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| Moses, J. D. (2022c, April 22). *Responsible Conduct of Research for Undergraduates* [Poster]. Association for Clinical and Translational Sciences, Chicago, IL. |
| Moses, J. D. (2022b, March). *Responsible Conduct of Research for Undergraduates* [Poster]. College of Education Research Symposium, Gainesville, FL. |
| Moses, J. D. (2014b). *Creating and testing Polymerase Variants for Increased Fidelity* [Poster]. Florida Undergraduate Research Conference, Miami, FL. |
| Moses, J. D. (2014a). *Aptamers for a Possible Alzheimer’s Therapy* [Poster]. Florida Undergraduate Research Conference, Gainesville, FL. |
| Moses, J. D. (2012). *Analysis of Ionized Water for Silver Nanoparticles* [Poster]. Florida Undergraduate Research Conference, Deland, FL. |

**Teaching experience**

UNIVERSITY OF florida Gainesville, FL

Assistant Director Summer 2020-Fall 2022

Entering Research Curriculum Facilitator (CIMER)

Graduate Student Assistant - IDS4930 – Interdisciplinary Undergraduate Research CURE

Asynchronous Courses:

* Responsible Conduct of Research for Undergraduates
* Mentoring Undergraduate Researchers
* Mentee 101

Workshops:

* Project Management in Research
* Virtual Presentation Tips
* Email, Zoom, and Social Media Etiquette
* Center for Undergraduate Research Scholarships, what you need to know!

Santa Fe College Gainesville, FL

Adjunct Professor Summer 2016-Fall 2022

ETI2160 Metrology

ETI2170 QA and Regulatory Affairs

MLT2191/L Histology

HSC3505 Toxicology

BSC2487 Scientific Writing

BSC1421 Introduction to Biotechnology

CHM2124 Quantitative Chemistry

BSC2423 Proteins

The Rock School Gainesville, FL

Teacher 2018

J-Term Forensic Science Course for 9th-12th grade

**LEADERSHIP AND Memberships**

Member, Association for Clinical and Translational Science 2022-Present

Member, Society for Learning Analytics and Research 2022-Present

Editor, Journal for Undergraduate Research, University of Florida 2022

Member, International Mentoring Academy 2021-Present

Reviewer, AECT Conference Proposals 2021-Present

Member, Association for Educational Communications and Technology 2021-Present

Member, American Educational Research Association 2021-Present

Member, Florida Educational Research Association 2021-Present

Historian, Florida Undergraduate Research Association 2019-2022

Club Founder & President of Biotechnology Club, Santa Fe College 2010-2011

**COMMUNITY SERVICE**

HONOR|ED 2020-Present

* Designed and developed a 3-year program and curriculum for moms and middle school daughters to create closeness and tackle challenges together.
* Organize community service projects and events

BACK TO SCHOOL COMMUNITY CLOSET 2021 & 2023

* Organized a free community closet for the local community, providing over 100 bags of clothes, toiletries, and new socks and underwear to kids for back to school, all through community donations and volunteers.

I AM STEM SUMMER CAMP 2018

* Demonstrated a basic DNA extraction and provided a brief lecture for understanding.
* Performed individual laboratory experiment (DNA Extraction: BIORAD Genes in a bottle kit) with two groups of 30 middle school students.

ALACHUA ELEMENTARY SCHOOL – SPIRIT NIGHT 2018

* Made slime with over 100 elementary students

MEADOWBROOK ELEMENTARY SCHOOL 2017

* 4th grade students - 2-hour presentation on insects, mimicry, diversity, and importance to the environment.

NEWBERRY ELEMENTARY SCHOOL 2016

* 2nd grade students - 2-hour presentation on insects, mimicry, diversity, and importance to the environment.

SANTA FE COLLEGE STEM SUMMER CAMP 2012, 2013

* Performed individual laboratory experiments with over 50 6-9th grade students over the course of 1 week with a focus on Forensic Science.

NORTH FLORIDA REGIONAL MEDICAL CENTER – VOLUNTEER 2011

* Assist nursing staff, make beds, fill water pitchers, ensure patient is comfortable