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🖱️ Portfolio

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in LinkedIn

🏠 Scholar

R⁶ ResearchGate

Profile

Learning Experience Architect with extensive experience in designing programs for some of the world's top universities. Strengths include international collaboration, effective communication, broad expertise, analytical thinking, forward-looking problem-solving, and practical technical skills.

Professional Experience

Associate Director of Design

2020 – 2023

Emeritus Institute of Management 🌐

- Designed high-quality technical courses for professional learners
- Guided world-class faculty to generate clear learning objectives
- Collaborated with key executive project partners to determine program goals
- Developed custom graphics, visualizations, and interactive learning experiences
- Created and trained colleagues to use custom efficiency software tools
- Communicated effectively with international stakeholders and team partners
- Led the evangelization and adoption of technical notation formatting standards
- Leveraged project management software for program communication and deadline management

Data Science Learning Experience Designer

2019 – 2020

Massachusetts Institute of Technology | Open Learning 🌐

- Developed and delivered data science instructional content for a multinational cohort at Universidad Tecnológica del Uruguay (UTEC)
- Used R programming, visualization, and documentation tools to generate 20+ novel lessons and analysis examples covering advanced statistical methods
- Presented synchronous online instruction weekly to 50+ learners
- Collaborated with education scientists and executive program leaders to develop and implement learning goals and course plans

Education Program Coordinator

2018 – 2019

Massachusetts Institute of Technology | Lemelson-MIT 🌐

- Created, delivered, and maintained 10+ invention-themed educational products and supporting graphics media for a middle-school audience
- Created custom productivity, research, and visualization tools using R and Python to enhance job effectiveness
- Led face-to-face invention-themed hands-on workshops

Professional Development Coordinator

2012 – 2017

Florida State University | Learning Systems Institute (LSI) 🌐

- Led the development of 350+ short-format documentary videos covering topics in mathematics and science from a variety of perspectives (enthusiast, professional, expert, educator)
- Led the development of 50+ mathematics- and science-related 3D models and accompanying curriculum
- Led statewide teacher professional development in ecology and statistics topics
- Supervised teachers, scientists, and university faculty as staff in professional development workshops

Skills

R ● ● ● ● ● data wrangling, analysis, modeling visualization, interaction, ETL pipeline development	Machine Learning ● ● ● ● ● principle component analysis, regression, NLP, cluster analysis, classification
Python ● ● ● ● ● file manipulation, task automation, data science tasks	Quantitative Analysis and Modeling ● ● ● ● ● exploratory data analysis, correlation, factor analysis
Team Management ● ● ● ● ● interpersonal development, communication strategies, project plan development, efficiency tools development	Data Visualization and Design ● ● ● ● ● color theory, UI/UX, interaction design, visual design principles
Learning Management Systems ● ● ● ● ● Canvas, modular learning experience design	Technical Learning Experience Tools ● ● ● ● ● Trinket, H5P, Canvas, Jupyter, Markdown, Quarto
Instructional Design ● ● ● ● ● learning objective development, cognitive load management, backward design, pedagogy, andragogy, Articulate, simulations, eLearning, ADDIE, storytelling	Transferable Skills ● ● ● ● ● multimodal communication, time management, process and document organization, workflow development, team interaction, adaptability, initiative, technology literacy

Education

PhD, Technology (Human Spatial Cognition and Gaming) Purdue University
MS, Technology (Virtual Reality and Education) Purdue University
MS, Horticulture (Plant Molecular Biology) Purdue University
BS, Biology (Plant Science) Henderson State University

Certificates

- CS50P: Introduction to Programming with Python, CS50, Harvard University [↗](#)
- Python for Managers, Columbia Business School Executive Education [↗](#)
- Professional Graduate Certificate in Data Science, Harvard Extension School (21FS4F4HAEEW) [↗](#)

Awards

Merit Award Florida State University Learning Systems Institute (LSI) Awarded 2013, 2014, 2015, 2016
Pole Star of the Quarter Emeritus Institute of Management Awarded 2022 for the development, dissemination, and implementation of custom design process automation tools

Outreach

Learning Experience Developer (multiple) BioBuilder.org MIT Open Learning pk12 Action Group MIT Full STEAM Ahead	2019
Program Fellow, Graduate STEM Fellows in K-12 Education National Science Foundation (NSF), Purdue University	2007
Project Counselor, Spaceflight and Life Sciences Training Program NASA (Kennedy Space Center, FL)	2004