Joshua Yudice

Educator, Leader, Scientist, Storyteller

As a dedicated **educator and leader** with a PhD in **Neuroscience** and a Master's in **Neuro-Cognitive Psychology**, I aim to combine my expertise in **teaching, research, art,** and **technology** to **revolutionise education**. I have expert experience with **emerging technologies** such as **AI and XR**, as well as time-honoured practices like **storytelling, gamified learning**, and **spatial mnemonics.** By making **learning fun and tailored** to each student's needs, we can give future generations everything they need to **build a happy and prosperous world.**

Academic Degrees

PhD Systemic Neuroscience *Ludwig Maximilian University Munich* • 2016 - 2024

MSc Neuro-Cognitive Psychology *Ludwig Maximilian University Munich* • 2013 - 2015

BSc Physiology and Neuroscience *University of California San Diego* • 2007 - 2012

Work Experience

Virtual AI-Based Teaching Assistant - Product Manager • 2021 - pres.
IU International University
Leading a software development team of 6 multidisciplinary professionals, including developers and designers.
Developing an AI-enhanced teaching assistant using cutting edge technologies and methodologies.
Providing 24/7 personalised support to over 100K students.
Maintaining and communicating the products vision to stakeholders.
Practicing continuous discovery to align with student needs.

Computational Neuroscience - Researcher • 2016 - 2021
Brandenburg University of Technology Cottbus-Senftenberg
Designed and ran 3 navigation experiments with human participants.
Programmed one VR experiment in C#/Unity.
Extensive data processing, statistical analysis, and data visualisation using MATLAB.
Predicted human behaviour using computational models.
Regularly presented finding at large conferences in multiple formats.
First author of 2 scientific manuscripts.

Methods and theory of functional MRI - Lecturer • 2016 - 2019
Ludwig Maximilian University Munich
Co-taught this comprehensive introductory course, topics included MRI physics, image processing, and analysis. Emphasis on problem based learning and applied skills.

Cognitive Neuroscience - Research Assistant • 2014 - 2015
Ludwig Maximilian University Munich
Designed experiments, conducted surveys and MRI scanning, statistical image analysis in MATLAB, programmed virtual environments and adaptive games in Python.

Developmental Neuroscience - Research Assistant • 2009 - 2010
University of California San Diego
Conducted eye-tracking with children, processed psychological assessments and MRI images, created didactic videos and writing.

Skills

Creative, proactive, structured, collaborative, problem solving, public speaking, teaching, perseverance, leadership

Web-based technologies, AI technology, user research, data processing and analysis, descriptive and inferential statistics, data visualisation, computational modelling, survey and assessment design

Graphic design, UI/UX principals, virtual reality fundamentals, creative writing, didactic storytelling

Software

MATLAB
Python
Java
C#
SQL
HTML/CSS/JavaScript
Atlassian Suite
Image Editors
Video Editors
MS Office

Languages

English *Native*

German *Fluent*