

RAHULRAJ P V

Computational Media Researcher | Creative AI Technologist | AI Research Engineer

Central London, United Kingdom

[Portfolio](#) • [GitHub](#) • [LinkedIn](#)

Computational Media • Cinematic Perception • Multimodal AI • Audience Modelling • Computational Creativity

Executive Profile

Interdisciplinary computational media researcher working at the intersection of cinematic perception, multimodal AI, audience modelling, and computational storytelling. Research focuses on modelling how viewers engage with moving-image media using behavioural analysis, saliency modelling, temporal media analytics, and AI-assisted narrative systems. Current work explores computational spectatorship, cinematic structure analysis, and multimodal perception pipelines for film and interactive media. Experienced in AI research engineering, creative technology development, computational media systems, and interdisciplinary teaching across AI, mathematics, and creative computing.

Education

MRes in Creative Computing 2025 – Present

University of the Arts London (UAL), Creative Computing Institute

- Recipient of a competitive **£25,000 University of the Arts London Scholarship**
- Research focus: computational media, cinematic perception, narrative intelligence, and multimodal AI systems

MTech in Computer Science & Engineering (Artificial Intelligence) 2022 – 2024

Digital University Kerala

- Recipient of the **Outstanding Student Award (2022–2024 Batch)**
- Research focus: Large Language Models, computer vision, and multimodal AI systems

PG Diploma in Data Science and Analytics 2021 – 2022

Kannur University

MSc Physics 2019 – 2021

Kannur University

Selected Research Systems

Computational Spectatorship Modelling

Built computational perception pipelines for modelling audience attention, narrative engagement, and cinematic saliency using behavioural signals and temporal media analytics.

Gradient.ai – Autonomous Media and Trust System

Designed a multi-agent AI news platform investigating transparency, trust, AI-mediated journalism, and algorithmic bias signalling through computational media workflows and behavioural user studies.

Narrative Topology Extraction System

Built AI-supported narrative analysis pipelines extracting story beats, tension curves, structural transitions, and causal density from screenplay datasets.

ShadowStage – Computational Puppetry System

Designed an AI-assisted computational puppetry system inspired by Kerala Tholpavakkoothu integrating programmable motion grammars, semantic lighting systems, and human-AI co-performance.

DinoSynthesis – Generative Paleo-Acoustics via Phylogenetic VAE-GAN

Developed a generative AI system reconstructing hypothetical dinosaur vocalisations using phylogenetic interpolation between modern birds and crocodilians. Designed a multi-stage VAE-GAN architecture integrating latent-space evolutionary modelling, adversarial spectral refinement, and morphology-informed acoustic constraints.

AI Campus Radio

Developed an autonomous AI-driven campus radio system integrating language models, text-to-speech systems, automated scheduling, and AI-assisted news generation workflows.

Professional Experience

AI Research and Development Engineer Dec 2024 – Sept 2025

Digital University Kerala

- Engineered multimodal AI systems involving Large Language Models, computer vision pipelines, and AI-assisted verification systems
- Automated data extraction, and multimodal information processing for digital media and verification tasks

AI Academic Tutor

Jun 2025 – Sept 2025

ASAP Kerala

- Delivered structured teaching in Artificial Intelligence, Python, machine learning, and computational thinking and Conducted workshops and mentoring sessions for students and working professionals

Co-Founder

Jul 2024 – Sept 2025

KnowLumi

- Co-founded an AI-driven educational platform focused on adaptive interview simulation systems
- Designed and deployed a multi-agent AI interviewer platform enabling scalable personalised interview practice

Research Intern

Jul 2023 – Dec 2023

Indian Institute of Management Kozhikode (IIM Kozhikode)

- Conducted research on Large Language Models and enterprise information systems
- Worked on prompt engineering workflows and AI-assisted information retrieval systems

Research Intern

Apr 2021 – Jun 2021

CSIR – National Physical Laboratory

- Conducted atmospheric analysis using NASA AERONET datasets
- Worked on statistical analysis pipelines and scientific reporting workflows

Teaching and Learning Experience

Independent Mathematics and Physics Tutor

2018 – Present

- Mentored more than **2000 students** across Physics and Mathematics
- Delivered conceptual and problem-solving instruction for higher-secondary and university-level learners
- Supported students preparing for competitive examinations including IIT-JEE and NEET

Coding and AI Instructor

2022 – Present

- Conducted beginner-friendly sessions in Python programming, Artificial Intelligence, and computational thinking
- Supported students from diverse academic backgrounds in technical learning and project development

Academic Publications

Narrative DNA: DNA-Sequence Inspired AI-Driven Analysis of Narrative Dynamics in Movie Scripts

Rahulraj P.V., Sanil J., Anoop V.S., Asharaf S.

Submitted to Society for Cognitive Studies of the Moving Image (SCSMI), 2026

Monetize the Dual: A Data-Analytic Approach for Native Language and Prequel Movie Popularity Analysis

Rahulraj P.V., Sanil J., Anoop V.S., Asharaf S.

Proceedings of the International Conference on Data Analytics and Insights (ICDAI), Springer, 2023

Changes in Atmospheric Air Quality in the Wake of a Lockdown Related to COVID-19 in Kerala

Rahulraj P.V., Ebin Antony

International Journal of Agriculture & Environmental Science (IJAES), 2022

Influence of AI in Education System

Rahulraj P.V., Ebin Antony

Emerging Trends of Psycho-Technological Approaches in Heutagogy, TNOU, 2022

Invited Talks and Workshops

- **Visiting Lecturer – Creative Computing Institute (CCI), University of the Arts London** 2026
Delivered the invited lecture: “*The Mathematics of Cinema: Patterns, Structure, and Perception in Film*”, exploring computational approaches to cinematic rhythm, audience attention, narrative structure, and perceptual modelling.
- **Research Presenter – UAL x CHEAD Research Event** 2026
Presented *DinoSynthesis: Generative Paleo-Acoustics via Phylogenetic VAE-GAN*, a speculative computational media research project exploring phylogenetic latent modelling, generative audio synthesis, and morphology-constrained acoustic reconstruction for extinct vocal systems.
- **Invited Speaker – AI for Humans 101, Skill Maaya, ISTE Student Chapter MBCET**
Delivered a session on Artificial Intelligence and Machine Learning fundamentals for more than **150+ students** from multiple colleges across Kerala.
- **Workshop Speaker – AI and Industry 4.0 Tools for Innovators and Entrepreneurs**
Digital University Kerala, Online Workshop Feb 2026
Conducted a workshop on AI tools, Industry 4.0 technologies, and innovation-oriented computational systems for entrepreneurship and emerging technology applications.

Creative Industry Experience

Collaborated on approximately **15 short films, advertisements, and music video productions** across assistant direction, creative coordination, editing support, and technical production workflows.

- Coordinated multidisciplinary creative production pipelines
- Supported post-production and technical implementation workflows
- Assisted collaborative communication between creative and technical teams

Technical Expertise

Artificial Intelligence & Computational Systems

LLMs, Vision-Language Models, Computer Vision, Multi-Agent Systems, Generative AI, Narrative Intelligence, RAG Systems, OCR Systems, Behavioural Experimentation, Saliency Modelling, Perception Analytics

Deep Learning & Generative Modelling

PyTorch, TensorFlow, CUDA, GAN Architectures, Variational Autoencoders (VAEs), Audio Synthesis, Spectral Analysis, Latent Space Modelling

Data Science & Analytics

Pandas, NumPy, Scikit-learn, Data Visualisation, Statistical Analysis, Exploratory Data Analysis (EDA), Predictive Modelling, Machine Learning Pipelines, A/B Testing, Hypothesis Testing, Time-Series Analysis

Creative AI & Media Tools

ComfyUI, Stable Diffusion, Adobe Firefly, RunwayML, Midjourney, Kling AI, Leonardo AI, Figma, Webflow, Cargo, TouchDesigner, Blender, Three.js, Adobe Premiere Pro, After Effects

Programming & Development

Python, R, React, Next.js, Flask, Git, SQL, API Integration, Workflow Automation, Linux

Data Visualisation & Research Tools

Matplotlib, Seaborn, Plotly, Tableau, Power BI, Jupyter Notebook, Google Colab, Excel

Scholarships, Honours, and Recognition

- Awarded a competitive **£25,000** University of the Arts London Scholarship for MRes Creative Computing
- **Outstanding Student Award** – Digital University Kerala (2022–2024 Batch)
- **Makerversity Under 30s** – Runner-Up, Somerset House, London
- **UAL CES x Lovable Portfolio Showcase Gala** – Second Place
- **Smart India Hackathon 2023** – First Prize (University Level)
- **Sharktank Hackathon – Google DSC WoW Kerala** – First Prize
- **Vidyadhan Scholarship** – Merit Scholarship funded by Infosys Co-Founder S. D. Shibulal