Colin Priest

Nexus Fellow

Faculty: Business

School: Risk and Actuarial

Nexus Projects: Guilds, Squads, Faculty, School

Nexus Priorities/Oral Assessment, AI Guild, AI Lecture Slide Review Tool

Nexus Project or Role Purpose & Overview (per project or role)

Project: Oral Assessment

Purpose:
To make oral assessment practical, scalable, and educationally rigorous.

Overview:
My contribution focuses on the standardisation and automation of oral assessments through:

- Developing reusable, automation-ready metrics and rubrics for common components of oral assessments
- Designing a categorisation framework and ontology for oral assessment metrics
- Addressing accessibility and fairness considerations, including ESL and neurodiverse learners
- Creating AI-powered analytics to extract assessment-relevant metrics from student presentations (e.g., transcript analysis, speaking time distribution, cognitive load of slides, clarity of communication frames such as *What? So What? Now What?*)
- Designing best-practice feedback models, including personalised examples of strong and weak performance based on each student's submission

Skills Applied:

- LLM prompting for assessment tasks
- Metric and rubric design
- Identification of accessibility and fairness issues
- Coding and UI/UX design
- High-quality assessment feedback design

Nexus Project or Role Purpose & Overview (per project or role)

Project: AI Guild

Purpose:
To develop, promote, and support best-practice academic use of AI across the faculty.

Overview:
My contribution centres on identifying risks and challenges in current AI-related assessment practices, and proposing practical, ethical, and pedagogically sound AI usage guidelines for staff.

Skills Applied:

- Pedagogical expertise in AI-enhanced teaching

Nexus Project or Role Purpose & Overview (per project or role)

Project: AI Lecture Slide Review Tool

Purpose:
To develop an intelligent tool that provides evidence-based feedback to help faculty improve the quality and effectiveness of their lecture slides.

Overview:
My contribution includes:

- Designing best-practice metrics for evaluating slide quality
- Developing algorithms to assess cognitive load, clarity, structure, and visual design
- Generating individualised recommendations aligned with identified issues
- Writing the code for the review tool

Skills Applied:

- LLM prompting
- Metric and rubric design
- Coding and UI/UX design

Nexus Project or Role Purpose & Overview (per project or role)

Project: AI stakeholder for RISK5001

Purpose:
To simulate realistic stakeholders using AI for a major assignment in RISK5001.

Overview:
In this assignment, students present case-study findings to a stakeholder and respond to stakeholder questions. My role included:

- Researching the case studies and recommending stakeholder personas
- Standardising the assignment options offered to students
- Creating 48 Custom GPTs, each representing a unique stakeholder profile
- Delivering a student briefing on how to effectively use their assigned stakeholder GPT

Skills Developed:

- LLM prompting
- Custom GPT design
- Application of psychology concepts (e.g., cognitive biases) to stakeholder behaviour

Activities, Outputs and Outcomes (per project or role)

- RISK5001 assignment
  - 48 custom GPTs
  - Students who chose the AI-simulated stakeholder scored higher on the final exam, even after adjusting for confounding factors such as self-selection by stronger students

Evidence of Impact (Implementation)

School/Faculty involvement	Courses/Programs Involved	Workshops delivered (n=)	Collaborations
Risk and actuarial	RISK5001	1	N/A

Evidence of Impact (SoTL)

Presentations (n=)	Publications (n=)	Blogs (n=)	Ethics applications (n=)
0	0	0	0

Relevant Links/Education (Research/SoTL/Resources) Output List

- N/A