

王泽宇

Zeyu Wang

LLM · Diffusion · VLM

wangzeyu@kean.edu · +86 185 3806 9618

GitHub · Google Scholar



教育背景 EDUCATION

温州肯恩大学 Wenzhou-Kean University

2024.09 - 2028.06

数学科学文学学士（数据分析方向）· 累计 GPA: 3.80/4.00 · 中美合作办学 · 全英文授课

美国肯恩大学 Kean University

2026 春

数学科学文学学士（数据分析方向）· 交换期间 GPA: 4.00/4.00 · 交换学生

论文与研究成果 两篇均为第一作者

Decoupling Generation and Selection for Budget-Constrained Faithful Summarization

Zeyu Wang, Guanghua Wang, Meng Xu

第一作者 · arXiv:2608.03655 · 2026 年 8 月

- 提出预算约束下的忠实摘要框架，将神经生成与句子级内容选择解耦，先构建候选摘要池，再进行受约束的组合选择。
- 将摘要构造建模为同时考虑语义覆盖、事实一致性、内容冗余与长度预算的组合优化问题。
- 采用 DPP 启发的多样性选择策略，在保持摘要质量的同时改善事实一致性与冗余控制，降低生成式摘要中的幻觉风险。

Flight Scheduling Optimization Using Predicted Delay Probabilities: A Mixed-Integer Linear Programming Approach

Zeyu Wang, Fangtian Liu, Ebenezer Fiifi Emire Atta Mills

第一作者 · 投稿至 IJDMMM · 收到返修要求 · 2026

- 构建面向航班延误概率估计的机器学习流程，强调仅使用起飞前可获得的信息并控制数据泄漏风险。
- 将预测延误概率嵌入混合整数线性规划模型，在容量约束下选择航空公司-机场-月份服务单元。
- 评估合成代理目标与预测风险的改善，并明确跨时间验证中的泛化局限。

研究与项目经历 RESEARCH EXPERIENCE

扩散模型研究 · 温州肯恩大学

2026.09 - 至今

- 与 Zhiqiang Gao 教授在国际前沿交叉研究院合作开展扩散模型优化与泛化研究。

访问学生研究员 · 西湖大学 AGI 实验室

2026.04 - 2026.09

- 在 Chi Zhang 教授指导下开展扩散模型与视频生成研究。

大语言模型摘要研究 · 美国肯恩大学

2026.01 - 至今

- 在 Guanghua Wang 教授指导下研究预算约束下的事实一致性摘要生成与组合选择。

预测与优化研究 · 温州肯恩大学

2025.09 - 2026.01

- 与 Ebenezer Atta Mills 教授合作开展航班延误预测与基于预测概率的 MILP 优化研究。

SafeArrival AI · 多模态风险咨询系统

2026.05

- 面向 The Gemma 4 Good Challenge 构建多模态诈骗风险咨询系统，采用 Gemma 4、Cloudflare Workers、D1、R2 与 Durable Objects。

荣誉奖项 AWARDS & HONORS

Google 2026 Gemma 4 Hackathon · 晋级半决赛 (Semifinalist)

2026

温州肯恩大学海外学习奖学金 · 一等奖

2026 春

美国肯恩大学 Kean University 交换学习

专业能力 METHODS & TOOLS

机器学习: PyTorch、集成学习、模型评估、扩散模型、大语言模型

优化方法: 混合整数线性规划、组合优化、DPP 启发式选择

编程工具: Python、TypeScript、SQL、Git、LaTeX

系统实践: Cloudflare Workers、D1、R2、Durable Objects、AWS

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GitHub · Google Scholar



Education ACADEMIC TRAINING

Wenzhou-Kean University

Sep 2024 – Jun 2028

B.A. in Mathematical Sciences, Data Analytics Option · Cumulative GPA: 3.80/4.00 · English-medium joint institution

Kean University, United States

Spring 2026

B.A. in Mathematical Sciences, Data Analytics Option · Exchange GPA: 4.00/4.00 · Exchange Student

Publications & Manuscripts FIRST AUTHOR ON BOTH WORKS

Decoupling Generation and Selection for Budget-Constrained Faithful Summarization

Zeyu Wang, Guanghua Wang, Meng Xu

FIRST AUTHOR · arXiv:2608.03655 · August 2026

- Introduces a budget-constrained framework that separates neural candidate generation from sentence-level content selection for faithful abstractive summarization.
- Formulates summary construction as diversity-aware combinatorial optimization over semantic coverage, factual consistency, redundancy, and an explicit length budget.
- Uses a DPP-inspired selection strategy to improve factual consistency and redundancy control while preserving competitive summary quality across generation models and benchmark datasets.

Flight Scheduling Optimization Using Predicted Delay Probabilities: A Mixed-Integer Linear Programming Approach

Zeyu Wang, Fangtian Liu, Ebenezer Fiifi Emire Atta Mills

FIRST AUTHOR · Submitted to IJDMMM · Revision requested · 2026

- Develops a leakage-aware machine-learning pipeline for estimating flight-delay probabilities from information available before departure.
- Integrates predicted delay probabilities into MILP for capacity-constrained selection of carrier-airport-month service units.
- Evaluates a synthetic proxy objective and predicted risk, with limited generalization in temporal validation.

Research & Selected Project Experience APPLIED AI

Diffusion Model Research · Wenzhou-Kean University

Sep 2026 – Present

- Working with Prof. Zhiqiang Gao on diffusion model optimization and generalization at the International Frontier Interdisciplinary Research Institute (IFIRI).

Visiting Student Researcher · Westlake University AGI Lab

Apr – Sep 2026

- Researched diffusion models and video generation under the supervision of Prof. Chi Zhang.

LLM Summarization Research · Kean University

Jan 2026 – Present

- Research under Prof. Guanghua Wang on faithful summarization and combinatorial selection under budget constraints.

Prediction and Optimization Research · Wenzhou-Kean University

Sep 2025 – Jan 2026

- Research with Prof. Ebenezer Atta Mills on flight-delay prediction and probability-driven MILP optimization.

SafeArrival AI · Multimodal Risk Advisory System

May 2026

- Built a multimodal scam-risk advisory system for The Gemma 4 Good Challenge using Gemma 4, Cloudflare Workers, D1, R2, and Durable Objects.

Awards & Honors

Google 2026 Gemma 4 Hackathon · Semifinalist

2026

WKU Overseas Study Scholarship · First Class

Spring 2026

Kean University exchange

Technical Preparation METHODS & TOOLS

Machine Learning: PyTorch, ensemble learning, evaluation, diffusion models, LLMs

Programming: Python, TypeScript, SQL, Git, LaTeX

Optimization: MILP, combinatorial optimization, DPP-inspired selection

Systems: Cloudflare Workers, D1, R2, Durable Objects, AWS