

Patricia Anugrah Setiani

patriciasetiani@gmail.com | patriciasetiani.github.io | github.com/patriciasetiani

Research Interests: Human-AI interaction, human behavior analysis, multimodal learning, data-driven modeling

EDUCATION

M.S. in Computer Science | University of Minnesota, Twin Cities May 2026

GPA 3.9/4.0

B.S. in Computer Science | Universitas Indonesia July 2022

RESEARCH EXPERIENCE

Graduate Research Assistant | Human-AI Interaction Feb 2025 – Present

Minnesota NLP, University of Minnesota (Prof. Dongyeop Kang)

Human-Agent Collaboration (to be submitted to ACL Rolling Review, October 2026)

- Built the data cleaning and annotation pipeline for 100+ hours of screen recordings from 45 professionals across 36 occupations, with two one-hour sessions per participant.
- Co-developed the adopt/modify/reject workflow annotation guideline.
- Annotated 100 workflows and trained other researchers to annotate under it.

Orchestrating GenAI (in collaboration with the Allen Institute for AI)

- Built an NLP discourse-coding scheme to compare Deep Research versus standard GenAI use.
- Annotated 388 conversations from 15 researchers; standard GenAI showed a 4.7x higher iterative-refinement loop rate.

RESEARCH PUBLICATIONS

[1] **Kolab: Benchmarking Human-Agent Collaboration in Long-Horizon Workflows** ICLR 2027, under review

S. A. Hayati, P. A. Setiani, R. Wang, Z. Li, K. C. Le, Y.-J. Lee, D. Kang

[2] **Orchestrating GenAI for Interdisciplinary Research** CHI 2027, under review; arXiv:2609.30588

S. A. Hayati, M. Zhou, P. A. Setiani, R. Wang, J. C. Chang, D. Kang

ACADEMIC PROJECTS

Prompt Refinement Visualization for Deep Research Workflows | Natural Language Processing 2025

Llama 3.3-70B, Prompt Engineering, LLM Evaluation

- Built a prompt-linting tool that scores research prompts and suggests refinements before Deep Research queries run.
- Planned and executed user research (N=11) for the tool, managing IRB approval, participant recruitment and scheduling, interviews, and usability evaluations.
- Synthesized post-study findings to identify usability gaps; perceived goal success rose from 6.8 to 8.9 out of 10.

Multimodal Recommendation for Cold-Start Mitigation | Deep Learning 2026

PyTorch, ResNet-50, MiniLM

- Built a time-aware model that combines text, image, and interaction embeddings through gated cross-attention. Trained on 701,528 Amazon Reviews interactions. Training loss fell from 0.54 to 0.21 vs. an ID-only baseline.
- Ablations isolated the image embeddings as the driver of cold-start gains. Few-shot Recall@10 was 0.0182 vs. 0.0073 for the baseline (+149%).

Food Crime Scene: Narrative Data Visualization | Data Visualization 2025

Svelte, TypeScript, D3.js, Three.js

- Designed a detective-themed narrative visualization. Reached a 47% share rate and 92% first-pass quiz success.

TEACHING AND OTHER EXPERIENCE

Teaching Assistant | Computer Science Department, Universitas Indonesia Jan 2020 – Jun 2024

- Courses: Data Structures & Algorithms, Automata, Discrete Mathematics, Knowledge Management.

UI/UX Designer | Skilvul Aug 2021 – Jan 2022

- Redesigned the Kitabisa donation page (1M+ downloads) using a design thinking approach and scored 6/7 SEQ after 2 rounds of usability testing.

TECHNICAL SKILLS

AI & ML: PyTorch, Hugging Face, OpenAI API, LLM fine-tuning and evaluation, prompt engineering

Languages: Python, Java, C#, JavaScript, TypeScript, SQL

Web & Tools: HTML, CSS, React, Svelte, Django, PostgreSQL, D3.js, Figma, Git, CI/CD, Azure