

# Jacob Puthipiroj

PhD Candidate, Computer Science & Learning Sciences — Northwestern University

Publishes as Jacob Puthipiroj and Pipob Puthipiroj.

puthipiroj@u.northwestern.edu | github.com/thetruejacob | Google Scholar

## EDUCATION

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### Northwestern University

Aug 2023 – Jun 2028 (expected)

PhD, Computer Science & Learning Sciences | MA, Computer Science — Evanston, IL

Advisor: Marcelo Worsley, Ph.D. — TIILT Lab

### Minerva University

Aug 2016 – May 2020

B.S. Computer Science (Data Science & Statistics) | Minor in Business — GPA 3.70/4.00

## HONORS & AWARDS

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- **Grand Prize, SuperAI Engineer: The Reality** — THB 500,000; selected from ~8,000 applicants. Artificial Intelligence Association of Thailand (2021).
- **Multiple hackathon prizes** — 15+ hackathons over four months, with awards across computer vision, fraud detection, and recommendation systems (2020–2021).

## PUBLICATIONS

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### Peer-Reviewed Conference Papers

**Puthipiroj, J.**, Supnithi, T., & Ketui, N. (2025). Structured Hackathons: A Pedagogical Model for AI Education. *Proceedings of the 26th International Conference on Artificial Intelligence in Education (AIED 2025)*. Springer.

**Puthipiroj, J.** & Quiterio, A. (2025). Designing for 5th Grader Sports and Computing Experiences. *Proceedings of the 56th ACM Technical Symposium on Computer Science Education (SIGCSE TS 2025)*.

**Puthipiroj, J.** (2026). If One Hack Week is Pedagogically Effective, Why Not Ten? *Proceedings of the ISLS Annual Meeting — CSCL 2026*, Irvine, CA.

### Journal Articles

Nguyen, T., Netto, J. F., Wilkins, P., Broker, E. E., Vargas, C. D., Sealfon, P., **Puthipiroj, P.**, et al. (2021). Insights into Students' Experiences and Perceptions of Remote Learning Methods: From the COVID-19 Pandemic to Best Practice for the Future. *Frontiers in Education*, 6, 647986.

## DOCTORAL CONSORTIA

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**Puthipiroj, J.** (2026). Learning in Quizbowl as Graph Traversal. *Companion Proceedings of the 16th International Conference on Learning Analytics & Knowledge (LAK26)* — Doctoral Consortium.

## PRESENTATIONS & TALKS

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### Learning as Graph Traversal

Apr 2026

CoDEx 2026 Research Talk — Norris University Center, Northwestern University

### Life is a Pure Flame

Jun 2026

Arts Gallery & Performance Track — ISLS Annual Meeting 2026, Irvine, CA

### Generating the Quizbowl Curriculum

May 2025

Symposium on AI, Education, and the Learning Sciences — Hilton Orrington, Evanston, IL

## ACADEMIC SERVICE

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### Program Committee Member — AIED 2026

2026

Late Breaking Results Track & Main Track

**Program Committee Member — CSCL 2026** 2026  
*Computer-Supported Collaborative Learning — ISLS Annual Meeting, Irvine, CA*

**Reviewer — CHI 2026** 2025–2026  
*ACM Conference on Human Factors in Computing Systems — Papers Track*

**Reviewer — SIGCSE Technical Symposium** 2025, 2026  
*ACM Technical Symposium on Computer Science Education*

**Program Committee Member — CSCL 2025** 2025  
*Computer-Supported Collaborative Learning — ISLS Annual Meeting*

**Judge — Chicago Area Undergraduate Research Symposium (CAURS)** Apr 2025, Oct 2025  
*Robert H. Lurie Medical Research Center, Chicago, IL*

#### PROFESSIONAL EXPERIENCE

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**Looloo Technology Co., Ltd** Aug 2021 – Mar 2023  
*Machine Learning Engineer — Bangkok, Thailand*

**Artificial Intelligence Association of Thailand** Sep 2020 – Present  
*Lecturer, Teaching Assistant & Program Participant — Bangkok, Thailand*

#### TECHNICAL SKILLS & LANGUAGES

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**Programming:** Python, R, Stata, SQL, Bash  
**Frameworks:** TensorFlow, PyTorch, PyStan, H2O  
**Tools:** AWS, Git, PowerBI, IBM Cognos  
**Languages:** Thai (Native), English (Fluent), German (Fluent), Mandarin (Conversational)