

Patrick Lee

Unit 1 - 2 Hallam Street
Toronto, ON, M6G 1W2, Canada
(604)649-9449
patrickyungkang.lee@mail.utoronto.ca

Education

M. Sc., Computer Science	2024 -present
University of Toronto (UTSG) Concentration: Computer Science (Information & Data Visualization) Supervisor: Carolina Nobre	
B. Sc., Cognitive Science	2018-2023
University of British Columbia (UBC) Concentration: Computational Intelligence & Design (Computer Science Stream) Dissertation: "Data Pipelining in Telescope"	
International Baccalaureate Diploma	2016-2018
Sir Winston Churchill Secondary School Bilingual Diploma (English & French)	

Honors, Awards, & Scholarships

Bill Aiello Memorial Award in Computer Science	2023
Andrew Wade Memorial Award in Visual Analytics	2023
Academic Award of Excellence in Computer Science	2023
Undergraduate Teaching Assistant Award	2023
Natural Sciences & Engineering Research Council of Canada (NSERC) Undergraduate Student Research Award (USRA)	2023
Rick Sample Memorial Award in Computer Science	2021
Natural Sciences & Engineering Research Council of Canada (NSERC) Undergraduate Student Research Award (USRA)	2020
British Columbia District Scholarship (Community Service)	2018
British Columbia District Scholarship (Fine Arts)	2018
Horatio Alger Association Undergraduate Scholarship	2018

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Publications

P.Y.K. Lee, N.F. Ma, I.-J. Kim, D.W. Yoon, 2023, “Speculating on Risks of AI Clones to Selfhood and Relationships: Doppelganger-phobia, Identity Fragmentation, and Living Memories”, *Proceedings of the ACM on Human-Computer Interaction*, Vol. 7, No. CSCW1, Article No. 91, pp. 1-28, DOI:10.1145/3579524

J. Huang, N.F. Ma, V.A. Rivera, T. Somani, **P.Y.K. Lee**, J. McGrenere, D.W. Yoon, 2024, “Design Tensions in Online Freelancing Platforms: Using Speculative Participatory Design to Support Freelancers' Relationships with Clients”, *Proceedings of the ACM on Human-Computer Interaction (CSCW)*, Vol. 8, No. CSCW1, Article No. 209, pp. 1-28, DOI:10.1145/3653700.

P.H. Bucci, L.I. Foord-Kelcey, **P.Y.K. Lee**, A. Singh, I. Beschastnikh, 2024, “Telescope: Exploring Themes in Large Document Sets By Example”, *Proceedings of the ACM Symposium on User Interface Software and Technology*, submitted.

E. Reid, V. Karasavva, H. Foadare, **P.Y.K. Lee**, E. Chong, K. Isbister, L.H. Kim, A. Mikami, R. Todd, K.E. MacLean, 2024, “ESSbots: Co-Designing Emotionally Supportive Swarm Robot Interaction for Fostering Teen Social Connection”, *Proceedings of the ACM on Human-Computer Interaction (CSCW)*, submitted.

Conference Presentations

P.Y.K. Lee, N.F. Ma, I.-J. Kim, D.W. Yoon, 2023, “Speculating on Risks of AI Clones to Selfhood and Relationships: Doppelganger-phobia, Identity Fragmentation, and Living Memories”, *The 26th ACM Conference On Computer-Supported Cooperative Work and Social Computing*, Minneapolis, MN, USA, October 14-18.

Service/Volunteering

University of Toronto Hart House Mentorship Program	2024-present
UBC Cognitive Systems Tri-Mentoring Program	2021-present
UBC Science Peer Academic Coaches	2019-2020
UBC Science Undergraduate Society	2018-2019

Teaching Experience

University of Toronto, Department of Computer Science 2024
Teaching Assistant

- Held lectures, office hours, and co-ordinated assessments and junior teaching assistants for:
 - CSC 110: Foundations of Computer Science I (1 semester)

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- JSC 270: Data Science I (1 semester)
- CSC 316: Data Visualization (1 semester)

University of British Columbia, Department of Computer Science

Student Directed Seminar Coordinator

2023

- Developed curriculum for and taught CPSC 490A: Computational Intelligence and Design, a 400-level seminar course

Teaching Assistant

2019-2023

- Held lectures, tutorial sessions, lab sessions, and office hours for the following courses:
 - CPSC 110: Computation, Programs, and Programming (3 semesters)
 - CPSC 103: Introduction to Systematic Program Design (1 semester)
 - CPSC 320: Intermediate Algorithm Design and Analysis (2 semesters)
 - COGS 200: Introduction to Cognitive Systems (3 semesters)
 - COGS 300: Understanding and Designing Cognitive Systems (1 semester)

Professional Experience

D-Lab, University of British Columbia

2020-2023

UI/UX Researcher

Investigated the ethical implications of a speculative class of technologies termed AI clones that mimic the likeness of real-world individuals. Conducted user interviews and performed qualitative analysis to unearth themes in participant responses.

Samsung R&D Canada

2020-2021

Junior Cloud Operations Engineer

Performed technical and statistical analysis of DevOps workflows to enhance and complement existing integration pipeline tech stacks. Developed monitoring and analytics dashboards for microservice workload observation. Orchestrated cloud containerization solutions using Docker/Kubernetes in Samsung Pay infrastructure.

CiTR 101.9 FM

2019-2020

Web Developer

Designed and implemented dashboards for tracking radio programming activities.

Extracurriculars

University of Toronto Run Club

2024-present

University of Toronto Judo Club

2024-present

Parkdale Pottery Studio

2024-present

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Technical Skills

- Qualitative Analysis (User interviews, focus groups, transcript analysis, qualitative coding, etc.)
- UI/UX Design and Prototyping (Figma, Miro, Photoshop, etc.)
- Data Visualization (D3)
- Robotics (Unity, Toio)
- Data Science/Machine Learning (Python, UMAP)
- Automation and Cloud Architecture (AWS, Jenkins, Terraform, Docker, etc.)

Professional Affiliations

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| • Human Interaction Visualization Lab, UTSG | 2024-present |
| • Sensory Perception & Interaction Research Group, UBC | 2023-2023 |
| • Multimodal User Experience Research Group, UBC | 2021-2023 |
| • Systopia Lab, UBC | 2022-2022 |

References

Professor Carolina Nobre
Assistant Professor, Department of Computer Science, UTSG
cnobre@cs.toronto.edu

Professor Ivan Beschastnikh
Associate Professor, Department of Computer Science, UBC
bestchai@cs.ubc.ca
(604)822-5628

Professor Dongwook Yoon
Associate Professor, Department of Computer Science, UBC
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(604)822-1993

Professor Christopher Mole
Programme Chair in Cognitive Systems, Department of Philosophy, UBC
chris.mole@ubc.ca
(604)827-3605