

Sathaporn “Hubert” Hu, Ph.D. (a.k.a. สถาพร ฮู, 胡秀楷)

Part-Time Faculty at Algoma University (Sault Ste. Marie)

CONTACT INFORMATION REMOVED.
GENERIC CV; NOT FOR JOB APPLICATION.

Education

Doctor of Philosophy

University: Dalhousie University

Time: Jan 2018 – Feb 2024

- **Program:** Computer Science
- **Optional Programs:** Dal GradPD, Certificate in University Teaching and Learning
- **Supervisor:** Derek Reilly

Master of Science

University: University of Calgary

Time: Sep 2015 – Dec 2017

- **Program:** Computer Science
- **Optional Program:** NICE Radiant at Dalhousie University
- **Supervisor:** Wesley Willett

Honours Bachelor of Science

University: University of Toronto

Time: Sep 2011 – May 2015

- **Programs:** Computer Science Specialist, Computational Cognitive Science Major, French as a Second Language
- **Supervisors:** Velian Pandeliev, John Vervaeke

Skills

Computer Science

- Data visualization and visual analytics with tools such as Tableau, Excel and R.
- Knowledge in cognitive science and AI with Python, and NLTK.
- UX design and evaluation.
- VR and AR development with Unity, C#.
- Web development with Django, SQL, HTML, JavaScript, and jQuery.

Research

- Mixed methods (quantitative & qualitative).
- Statistical analysis with R, Python, and Excel.
- Scientific writing and communication.
- Literature review.

Languages

- Thai (Native)
- English (Advanced)
- French
- Mandarin

Experience

- **Lecturer** at Algoma University (Jan 2024 – Now)
- **Lecturer** at Dalhousie University (May 2020 – Aug 2020; May 2021 – Aug 2021; Jan 2023 – Apr 2023)
- **Mitacs Intern** at Global Artificial Intelligence Accelerator, Ericson (Jan 2021 – Jul 2022)
- **Data Analyst for Windsor/West Hants Together Survey Analysis** (Dec 2019 – Jan 2020)
- **Graduate Research Assistant** at Dalhousie University (May 2019 – Aug 2019)
- **Graduate Research Assistant** at Dalhousie University (May 2018 – Aug 2018)
- **Research Intern** at Lenovo (Sep 2016 – Dec 2016)
- **Research Assistant** at the University of Toronto (Jan 2015 – Aug 2015)
- **Information Technology Intern** at JetAsia Airways (Jun 2014 – Aug 2014)

Projects

- **Gander:** My PhD project is an AR interface for geospatial analysis. I developed this interface with support from Ericsson. The AR interface uses Unity Game Engine. The backend is NodeJS plus R.
- **Nocturne 2021:** In 2021, I volunteered for an AR art installation project. I am currently analyzing the data and preparing a manuscript for this project.

- **Windsor/West Hants Together Survey Analysis:** When Windsor and West Hants, NS were merging, I, as a Data Analyst, was tasked with analyzing the survey data collected from the residents of both communities.
- **Classroom Evaluation:** As a Graduate Research Assistant in 2018 and 2020, I surveyed classrooms at Dalhousie University and analyzed the quality of the classrooms.
- **Kalgan:** My MSc project is a web-based video player for language learning. The app uses a web-based interface with a Django backend. SQLite was used for tracking.
- **Tangra, InTouch, ALLT:** I developed and extended existing software at the University of Toronto when I was a research assistant.

Teaching Experience

- **COSC2006: Data Structure I** at Algoma University (May 2024 – Aug 2024)
- **COSC3117: Artificial Intelligence** at Algoma University (Jan 2024 – Apr 2024)
- **COSC2836: Computer Science for Sciences** at Algoma University (Jan 2024 – Apr 2024)
- **CSCI4163/6610: Human-computer Interaction Class Lecturer** at Dalhousie University (Jan 2023 – Apr 2023)
- **CSCI6055: Research Methodology Class Lecturer** at Dalhousie University (May 2021 – Aug 2021)
- **CSCI6055: Research Methodology Class Lecturer** at Dalhousie University (May 2020 – Aug 2020)
- **Online Course Builder (For Transitioning In-Person Courses to Online Courses during COVID Outbreaks)** at Dalhousie University (Apr 2020 – Apr 2021).

Publications and Patent

- **Paper:** Hu, S. & Reilly, D. (2023). Comparative Glyph-Field Trajectory Analyses with an AR+Tablet Hybrid User Interface for Geospatial Analysis Tasks. In J. -A. Normand, M. Sugimoto & V. Sundstedt (Eds.), *ICAT-EGVE 2023 - International Conference on Artificial Reality and Telexistence and Eurographics Symposium on Virtual Environments*. <https://diglib.eg.org/handle/10.2312/egve20231320>
- **Poster:** Hu, S. & Reilly, D. (2023). Parallax-based Glyph Composition Technique with Colour-Blending Glyphs. In A. Campbell, C. Krogmeier & G. Young (Eds.), *ICAT-EGVE 2023 - International Conference on Artificial Reality and Telexistence and Eurographics Symposium on Virtual Environments - Posters and Demos*. <https://diglib.eg.org/handle/10.2312/egve20231342>
- **Patent [Pending]:** Hu, S., Reilly, D., Bashbaghi, S. (2022). Augmented Reality + Tablet Interface for Multiple Linear Regression Model Creation. *Ericsson*. [Patent no. PCT/IB2022/052779]
- **Paper:** Hu, S., Malloch, J. & Reilly, D. (2021). A Comparative Evaluation of Techniques for Locating Out of View Targets in Virtual Reality. *Proceedings of Graphics Interface 2021*. URL: <https://openreview.net/pdf?id=1S3TXjkEVmH>
- **Extended Abstract:** Hu, S. & Willet, W. (2018). Kalgan: Video Player for Casual Language Learning. *CHI EA '18 Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems*. <https://prism.ualgary.ca/items/1303aed5-ed17-4ba2-910f-98b9298ab58c>

Volunteer and Services

- **Emergency Reviewer** for ACM SUI 2024
- **Member of the Graduate Research Committee**, ARDIN (Jun 2024 – Present)
- **Reviewer** for IEEE ISMAR 2020, 2022, 2022, and 2024
- **Reviewer** for ACM SIGCHI 2019, and 2023
- **Reviewer** for VIS 2023
- **Organizer** for Dalhousie Computer Science In-house Conference (May 2021 – July 2021)
- **Mentor** at Dalhousie Computer Science In-house Conference (Jan 2020)
- **Student Volunteer** at ACM SIGCHI 2018
- **Session Chair and Judge** for Dalhousie Computer Science In-house Conference (Jan 2018)
- **Vice-President - Finance** for Computer Science Graduate Society, University of Calgary (May 2016 – Aug 2016)

- **Fire Warden** at Crownest Hall Residence, University of Calgary (Sep 2015 – Dec 2015)
 - **Administrator** for Cognitive Science and Artificial Intelligence Student Association at the University of Toronto (Sep 2012 – May 2015)
 - **Student Advisor** for Innis College at the University of Toronto (Sep 2012 – Apr 2013)
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