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YUYA ASANO

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EDUCATION

University of Pittsburgh, Pittsburgh, PA, USA
Doctor of Philosophy in Intelligent Systems Aug 2021 – Present
Advisor: Diane J Litman

University of Toronto, Toronto, ON, Canada
Honours Bachelor of Science in Computer Science, Focus in Artificial Intelligence.
Sep 2018 – Jun 2021
Cumulative GPA: 3.97/4.0

Beloit College, Beloit, WI, USA
Completed 20.75 units of total 31 units required for Bachelor of Arts Aug 2016 – May 2018
Cumulative GPA: 4.0/4.0

PUBLICATIONS

Archival Refereed Conference Proceedings Papers

- Asano, Y., Sankaranarayanan, S., Sakr, M., Bogart, C. (2021). A Thematic Summarization Dashboard for Navigating Student Reflections at Scale. *To appear in Proceedings of the 29th International Conference on Computers in Education. Asia-Pacific Society for Computers in Education.*
- Asano, Y., Dutta, M., Thakur, T., Solyst, J., Cristea, S., Jovic, H., Petersen, A. & Williams, J. J. (2021). Exploring Additional Personalized Support While Attempting Exercise Problems in Online Learning Platforms. *In Proceedings of the Eighth ACM Conference on Learning@ Scale.*
- Solyst, J., Thakur, T., Dutta, M., Asano, Y., Petersen, A., Williams, J. J. (2021). Procrastination and Gaming in an Online Homework System of an Inverted CS1. *In Proceedings of the 52nd ACM Technical Symposium on Computer Science Education (SIGCSE '21).*
- Xia, M., Asano, Y., Williams, J. J., Qu, H., Ma, X. (2020) Using Information Visualization to Promote Students' Reflection on "Gaming the system" in Online Learning. *Proceedings of the Seventh ACM Conference on Learning @ Scale (L@S '20).*
- Asano, Y., Solyst, J., Williams, J. J. (2020). Characterizing and Influencing Students' Tendency to Write Self-explanations in Online Homework. *Proceedings of the 10th International Conference on Learning Analytics & Knowledge*.

Extended Abstract

- Solyst, J., Asano, Y., Williams, J. J. (2019). The instructor reads what you write: Encouraging introductory programming students to engage in self-explanation online. In *the 6th Annual Conference on Digital Experimentation @ MIT*.

RESEARCH EXPERIENCE

Carnegie Mellon University, Pittsburgh, PA, USA
Research Intern Jan 2020 – May 2021
Advisor: Carolyn Penstein Rosé and Majd Sakr

- Providing instructionally beneficial programming hints in a human-in-loop approach by clustering students' solutions.
- Extracting actionable takeaways from students' reflections by identifying their topics of interest through named entity extraction and then summarizing for each topic.

University of Toronto, Toronto, ON, Canada
Undergraduate Research Assistant Apr 2019 – Apr 2021
Advisor: Joseph Jay Williams

- Creating an intelligent system on online educational platforms that personalizes its feedback given after students solve problems using reinforcement learning.

TEACHING EXPERIENCE

Beloit College, Beloit, WI, USA
Course Tutor Nov 2017 – May 2018

- Tutored students in various courses including mathematics, chemistry, and economics.
- Nomination from a professor is required to be a tutor.

Beloit College, Beloit, WI, USA
Teaching Assistant for Calculus I and II Sep 2017 – May 2018

- Assisted students in solving problems and understanding material in calculus.

WORKING EXPERIENCE

Recruit Group
Machine Learning Engineer Intern Jul 2021 – Jun 2021

- Developed a machine-learning algorithm to recommend stores for rent in tempodas.com.

Aidemy
Data Scientist Intern Mar 2021 – Jul 2021

- Visualized the course prerequisite structure and students' learning habits.
- Automated the creation of course description pages.
- Integrated Google Cloud Translation API into existing courses to make multilingual environment.

AWARDS

- University of Toronto Excellence Awards (Summer 2019)
- Jane Street Electronic Trading Challenges Algorithm Prize (Jun 2019)
- Rhea V. Scott Scholarship (Fall 2018 – Winter 2019)
- Presidential Scholarship (Fall 2016 – Spring 2018)

SKILLS

Computer Language: Python, Java, C, R, HTML, JavaScript, and PHP.

Speaking Language: English (Full Professional Proficiency), Japanese (Native Proficiency), Korean (Elementary Proficiency).

PROJECTS

Jane Street Electronic Trading Challenges Jun 2019

- Implemented Dyna-Q algorithm to decide if we should buy or sell stocks based on the trend in trading prices. Received the Algorithm Prize. https://github.com/akonoroshi/Jane_Street_ETC

CIBC Machine Intelligence Hackathon Sep 2018

- Modeled fraudulent insurance claim records by principal component analysis and Gaussian mixture, using additional features gained through aggregation and normalization of data. https://github.com/akonoroshi/CIBC_Hackathon.git

Test Code Development for Open DSA (CSCI 390 Special Projects) Spring 2018

- Developed Java test code of a textbook used in university-level data structure courses while communicating with another student who did her work in C++. https://github.com/OpenDSA/OpenDSA

EXTRACURRICULAR ACTIVITIES

U of T K-pop Dance crew (UTKD)
Treasurer Fall 2020 – Winter 2021
Founder and President Fall 2018 – Winter 2020

Japan Club at Beloit College
Treasurer Fall 2017 – Spring 2018
Vice President Fall 2016 – Spring 2017

Beloit Student Government Funding Board
Member Fall 2016 – Spring 2017