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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
Cumulative GPA: 3.85/4.0

**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., Litman, D., Yu, M., Lobczowski, N., Nokes-Malach, T., Kovashka, A., Walker, E. (2023). Impact of Experiencing Misrecognition by Teachable Agents on Learning and Rapport. *In Proceedings of the 24th International Conference on Artificial Intelligence in Education (AIED)*. (Best Poster Award)
- Asano, Y., Litman, D., Yu, M., Lobczowski, N., Nokes-Malach, T., Kovashka, A., Walker, E. (2022). Comparison of Lexical Alignment with a Teachable Robot in Human-Robot and Human-Human-Robot Interactions. *In proceedings of the 23rd Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL)*.
- Asano, Y., Sankaranarayanan, S., Sakr, M., Bogart, C. (2021). A Thematic Summarization Dashboard for Navigating Student Reflections at Scale. *In Proceedings of the 29th International Conference on 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

**University of Pittsburgh, Pittsburgh, PA, USA**
*Graduate Research Assistant* May 2022 – Present
Advisor: Dr. Diane J. Litman

- Analyzed and designed an effective dialogue strategy for a teachable robot, using natural language processing techniques.
- Was responsible for maintaining and developing the whole system for the teachable robot.

**University of Pittsburgh, Pittsburgh, PA, USA**
*Alexa Prize TaskBot Challenge 2 Participant* Feb 2023 – Sep 2023
Advisor: Dr. Malihe Alikhani

- Developed a context-aware method to correct automatic speech recognition errors in a task-oriented dialogue.
- Won the third place.

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

- Provided instructionally beneficial programming hints in a human-in-loop approach by clustering students' solutions.
- Extracted 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: Dr. Joseph Jay Williams

- Created an intelligent system on online educational platforms that personalized its feedback given after students solved 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.

## PROFESSIONAL EXPERIENCE

**Recruit Group**
*Machine Learning Engineer Intern* Jun 2021 – Jul 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, C#.
**Speaking Language**: English (Full Professional Proficiency), Japanese (Native Proficiency), Korean (Elementary Proficiency).

## SEAVICES

- **Reviewer:** NEJLT, ACL 2023, CSCW 2023