

# YUKI UENO

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## EDUCATION

- 2025.01 – **Ph.D. in Computer Science, Arizona State University** Tempe, AZ  
- Advisor: Prof. Chris Bryan
- 2017.04 – 2019.03 **M.Eng. in Electrical Engineering, Kyoto University** Japan  
- Thesis: "Analysis of Exploration Behavior in Graph Drawing Based on Physiological Information"  
- Advisors: Prof. Koji Koyamada and Prof. Hiroaki Natsukawa
- 2013.04 – 2017.03 **B.Eng. in Electrical and Electronic Engineering, Kyoto University** Japan  
- Thesis: "Modeling Machine Manipulation and Structuring Experience Videos Focusing on Differences in Skill Level"  
- Advisor: Prof. Yuichi Nakamura

## PROFESSIONAL EXPERIENCES

- 2019.04 – 2024.12 **Software Engineer, DENSO Corporation** Japan  
(DENSO Corporation is one of the world's leading automotive system suppliers)
- 2024.04 – 2024.12 Software Engineer in Cloud Services R&D Div.  
- Develop backend and frontend software for [yuricargo](#)
- 2023.04 – 2024.03 Software Process Improvement Engineer in Woven by Toyota  
- Developed software verification process standards for Arene OS in an international team
- 2019.04 – 2023.03 Data Engineer & BI Engineer in Software Production Innovation Div.  
- Developed a data analysis platform for software development management to support data-driven decision-making with various technologies, including Python, SQL, Tableau, and AWS  
- Developed a visualization system with ELK Stack to monitor application log data

## AWARDS AND HONORS

- 2025 Honorable Mention on IEEE PacificVis 2025 Visual Storytelling Contest.  
[Yuki Ueno](#), Zhuojun Jiang, Bretho Danzy, Michael Kintscher, Nianwen Dan, Utkarsh Singh, Chris Bryan. "The Story of Wagyu: Bringing Charm of Japan's Pride to the World." *IEEE PacificVis 2025 Visual Storytelling Contest*, 2025. [demo](#)
- 2024 Best Paper on The Visualization Society of Japan.  
[Yuki Ueno](#), Hiroaki Natsukawa, and Koji Koyamada. "Do Boxes Affect Exploration Behavior and Performance in Group-in-a-box Layouts?" *Journal of Visualization*, 2024. <https://link.springer.com/article/10.1007/s12650-024-01037-2>

## PUBLICATIONS

### JOURNAL

- 2024 [Yuki Ueno](#), Hiroaki Natsukawa, and Koji Koyamada. "Do Boxes Affect Exploration Behavior and Performance in Group-in-a-box Layouts?" *Journal of Visualization*, 2024. [\[Best Paper\]](#) <https://link.springer.com/article/10.1007/s12650-024-01037-2>
- 2019 [Yuki Ueno](#), Hiroaki Natsukawa, Nozomi Aoyama, and Koji Koyamada. "Exploration behavior of group-in-a-box layouts." *Journal of Visual Informatics* (also proc. *PacificVAST*), Vol. 3, No. 1, pp. 38-47, 2019. <https://www.sciencedirect.com/science/article/pii/S2468502X19300208>

### REFEREED FULL-LENGTH CONFERENCE PAPERS

- 2019 Nozomi Aoyama, Yosuke Onoue, [Yuki Ueno](#), Hiroaki Natsukawa, and Koji Koyamada. "User Evaluation of Group-in-a-Box Variants." In Proc. *IEEE PacificVis*, pp. 127-136, 2019. <https://ieeexplore.ieee.org/document/8781570>

## WORKSHOP PAPERS, SHORT PAPERS, and OTHER

- 2025 Yuki Ueno, Zhuojun Jiang, Bretho Danzy, Michael Kintscher, Nianwen Dan, Utkarsh Singh, Chris Bryan. "The Story of Wagyu: Bringing Charm of Japan's Pride to the World." *IEEE PacificVis 2025 Visual Storytelling Contest*, 2025.  
[\[Honorable Mention\]](#). [demo](#)
- 2018 Yuki Ueno, Hiroaki Natsukawa, Nozomi Aoyama, Koji Koyamada. "Task Performance Classification During Visualization Evaluations Based on Physiological Signals." *VizAfrica 2018 Visualization Symposium*, 2018.
- 2018 Nozomi Aoyama, Yuki Ueno, Koji Koyamada. "A Computational Evaluation of Eye-Tracking Measures in Group-in-a-Box Layouts." *VizAfrica 2018 Visualization Symposium*, 2018.

## RESEARCH EXPERIENCES

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- 2017.04 – 2019.03 **Visualization Lab, Kyoto University** Japan  
Domain: Visualization, Human-Computer Interaction, Cognitive Science  
Advisors: Prof. Koji Koyamada and Prof. Hiroaki Natsukawa  
- Investigated the behavioral patterns while interacting with graph drawings based on physiological signals  
- Compared performance of several graph-drawing methods based on user experiments
- 2018.01 – 2018.02 **AI Lab, DENSO Corporation** Japan  
Domain: Human Machine Interface, Cognitive Science  
Advisor: Dr. Fumihiko Murase  
- Investigated the relationship between subjects' emotions and physiological responses experienced while watching a video
- 2016.04 – 2017.03 **Nakamura Lab, Kyoto University** Japan  
Domain: Computer Vision, Human Sensing  
Advisor: Prof. Yuichi Nakamura  
- Modeled manipulation of a sewing machine to automatically create a meaningful instructional manual from experience videos

## TEACHING EXPERIENCES

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- 2018.04 – 2018.07 **ILAS Seminar in Visualization Lab, Kyoto University** Japan  
(The ILAS Seminar is one of the Liberal Arts and Sciences Courses mainly for new undergraduate freshmen, taught in a small-group seminar format conducted by professors. The seminar topics included methods for data analysis of multidimensional data.)  
Teaching Assistant
- 2017.10 – 2018.01 **Visualized Simulation Technology, Kyoto University** Japan  
(Graduate Course)  
Teaching Assistant
- 2017.04 – 2017.07 **Spacio-temporal Data Analysis for Multimedia, Kyoto University** Japan  
(Graduate Course)  
Teaching Assistant

## ACADEMIC SERVICE

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- 2018 Workshop Organizer, Cyber Field Work 2018 at Kyoto University
- 2018 Exhibitor Booth Personnel, SC 2018
- 2018 Student Volunteer, PacificVis 2018
- 2017 Exhibitor Booth Personnel, SC 2017

## CERTIFICATIONS

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- 2021 AWS Certified SysOps Administrator – Associate
- 2021 AWS Certified Solutions Architect – Associate
- 2020 AWS Certified Cloud Practitioner

2020

Applied Information Technology Engineer (Certification in Japan)

## SKILLS

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Languages

**HTML/CSS, JavaScript/TypeScript, Python**, Dart, C, SQL, MATLAB

Libraries

**React, D3.js**, Next.js, Django, Flutter

Tools

**Tableau, Power BI**, Kibana, Elasticsearch