

# YUKI UENO

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## EDUCATION

- 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 – Present **Software Engineer, DENSO Corporation** Japan  
(DENSO Corporation is one of the world's leading automotive system suppliers)
- 2023.04 – Present Software Process Improvement Engineer in Woven by Toyota
- Develop 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

## PUBLICATIONS

### JOURNAL

- 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>

### SYMPOSIUM PAPERS

- 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

- 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	<b>AI Lab, DENSO Corporation</b> Domain: Human Machine Interface, Cognitive Science Advisor: Dr. Fumihiko Murase - Investigated the relationship between subjects' emotions and physiological responses experienced while watching a video	Japan
2016.04 – 2017.03	<b>Nakamura Lab, Kyoto University</b> 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	Japan

## TEACHING EXPERIENCES

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2018.04 – 2018.07	<b>ILAS Seminar in Visualization Lab, Kyoto University</b> (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	Japan
2017.10 – 2018.01	<b>Visualized Simulation Technology, Kyoto University</b> (Graduate Course) Teaching Assistant	Japan
2017.04 – 2017.07	<b>Spacio-temporal Data Analysis for Multimedia, Kyoto University</b> (Graduate Course) Teaching Assistant	Japan

## 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	<b>HTML/CSS, JavaScript/TypeScript, Python</b> , Dart, C, SQL, MATLAB
Libraries	<b>React, D3.js</b> , Next.js, Django, Flutter
Tools	<b>Tableau, Power BI</b> , Kibana, Elasticsearch