

Kagurazaka Ritsuka (晏雲杉)

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<https://github.com/Ritsuka314/CV/blob/master/cv.pdf>

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| Research interests | discrete-event systems: supervisory control, decentralization; formal reasoning; computer assisted and verified proofs |
| Teaching experience | Data Structures; Computer Architecture; Microprocessor Interfacing and Embedded Systems; Discrete Mathematics; Semantics of Programming Language; Electric Circuits. |
| Teaching awards | <p>2021 Dean's Teaching Assistant Award (DTA), as exceptional Teaching Assistant nominated by the department.</p> <p>Teaching Assistant of the Year for Excellence in Education and Exceptional Teaching, as voted by students of the department, for the academic year of 2016/2017.</p> |
| Position | <p>Post-doctoral Research Fellow Department of Electrical Engineering and Computer Science, University of Michigan Principal Investigator: Prof. Stéphane Lafortune Feb. 2024–Jan. 2025</p> |
| Education | <p>Queen's University, Canada <i>Doctor of Philosophy, Department of Electrical and Computer Engineering</i> <i>Supervisor: Prof. Karen Rudie</i> <i>Awarded:</i> 2023 November</p> <p>Queen's University, Canada <i>Master of Engineering, Department of Electrical and Computer Engineering</i> <i>Awarded:</i> 2019 June <i>GPA:</i> 4.02/4.3</p> <p>Queen's University, Canada <i>Bachelor of Applied Science, Department of Electrical and Computer Engineering</i> <i>Awarded:</i> 2018 June <i>Honours:</i> First Class Honours <i>GPA:</i> CGPA: 3.85/4.3</p> |
| Publications | <p>See also https://ritsuka.moe/bibpage.html.</p> <p>K. Ritsuka <i>Decentralized Problems of Discrete-Event Systems: Epistemic Reasoning and Graph Representation</i> Ph.D. thesis</p> |

K. Ritsuka, K. Rudie

“A Uniform Approach to Compare Architectures in Decentralized Discrete-Event Systems”, 2023

Accepted for publication in Automatica. Preprint available as [arXiv:2210.16511](https://arxiv.org/abs/2210.16511).

K. Ritsuka, K. Rudie

“Equivalence of Decentralized Observation, Diagnosis, and Control Problems in Discrete-event Systems”, 2023

Preprint available as [arXiv:2204.10792](https://arxiv.org/abs/2204.10792).

N. Mertin, **K. Ritsuka**, K. Rudie

“A Framework for the High-Level Specification and Verification of Synchronous Digital Logic Systems”, 2022

Preprint available as [arXiv:2201.10632](https://arxiv.org/abs/2201.10632).

K. Ritsuka, K. Rudie

“A Visualization of Inference-Based Supervisory Control in Discrete-Event Systems”, 2021

Presented at 2021 60th IEEE Conference on Decision and Control (CDC). DOI:10.1109/CDC45484.2021.9683210.

K. Ritsuka, K. Rudie

“Do What You Know: Coupling Knowledge with Action in Discrete-Event Systems”, In *Discrete Event Dynamic Systems*. DOI:10.1007/s10626-023-00381-z.

K. Ritsuka, K. Rudie

“Epistemic Interpretations of Decentralized Discrete-Event System Problems”, 2022 In *Discrete Event Dynamic Systems*. DOI:10.1007/s10626-022-00363-7.

J. Kulchyk, B. Schonewille, **K. Ritsuka**, K. Rudie

“Communication-Free Multi-Agent Coordination in an Unknown Environment”, 2020, Presented at 2020 15th IFAC Workshop on Discrete Event Systems (WODES). DOI:10.1016/j.ifacol.2021.04.062

Teaching

Graduate Teaching Assistant

CISC 465/865-2023W: Semantics of Programming Languages (ongoing)

ELEC 274-2023W: Computer Architecture (ongoing)

ELEC 371-2022F: Microprocessor Interfacing and Embedded Systems

* ELEC 270-2022W: Discrete Mathematics

** ELEC 270-2021W: Discrete Mathematics

ELEC 371-2020F: Microprocessor Interfacing and Embedded Systems

ELEC 270-2020W: Discrete Mathematics

ELEC 278-2019F: Data Structures

ELEC 278-2018F: Data Structures

* Head TA

** Recipient of the 2021 Dean’s Teaching Assistant Award (DTA), as exceptional Teaching Assistant nominated by the department. With a monetary award.

Undergraduate Teaching Assistant

ELEC 274-2018W: Computer Architecture

ELEC 278-2017F: Data Structures

* ELEC 274-2017W: Computer Architecture

ELEC 221-2016F: Electric Circuits

- * Awarded as Teaching Assistant of the Year for Excellence in Education and Exceptional Teaching, as voted by students of the department, for the academic year of 2016/2017.

Awards

- Dean's Teaching Assistant Award, 2021
- Students' Choice: The Best Engineering Capstone Project, 2018
- Teaching Assistant of the Year, 2017
- Ho Ming Tai Memorial Scholarship, 2015, 2016, 2017, 2018
- Dean's Scholar, 2015, 2016, 2017, 2018
- Queen's University Excellence Scholarship, 2014