

Kagurazaka Ritsuka

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<https://github.com/Ritsuka314/Resume/blob/master/resume.pdf>

My unofficial transcript for PhD, MASc, and BASc degrees can be accessed at:

https://github.com/Ritsuka314/Resume/blob/master/SSR_TSRPT_UN.pdf and <https://github.com/Ritsuka314/Resume/blob/master/McMaster%20Transfer%20Credit.pdf>.

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	2021 Dean's Teaching Assistant Award (DTA), as exceptional Teaching Assistant nominated by the department. 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.
Education	<p>Queen's University, Canada <i>Doctor of Philosophy, Department of Electrical and Computer Engineering</i> <i>Expected 2023</i></p> <p>Queen's University, Canada <i>Master of Engineering, Department of Electrical and Computer Engineering</i> Awarded: 2019 June GPA: 4.02/4.3</p> <p>Queen's University, Canada <i>Bachelor of Applied Science, Department of Electrical and Computer Engineering</i> Awarded: 2018 June Honours: First Class Honours GPA: CGPA: 3.85/4.3</p>
Publications	See also https://ritsuka.moe/bibpage.html . K. Ritsuka, K. Rudie "A Uniform Treatment of Architectures in Decentralized Discrete-Event System", 2023 Submitted for Publication. Preprint available as arXiv:2210.16511 . K. Ritsuka, K. Rudie "A correspondence between control and observation problems in decentralized discrete-

event systems”, 2022
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”, Submitted for Publication. Preprint available as [arXiv:2108.02000](https://arxiv.org/abs/2108.02000).

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