Curriculum Vitae

Ryo Kanno

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🌐 ryokanno.net 🌐 https://scholar.google.com/citations?user=6euEpQsAAAAJ&hl=en

EDUCATION

Ph.D. candidate at Laboratory of Sustainability Robotics
Empa/EPFL
- Untethered magnetically driven miniature soft robots
- Biocompatible ionic polymer actuators

June 2023-present
Zurich/Lausanne, Switzerland

M.Eng. in Mechanical Engineering and Intelligent Systems
The University of Electro-Communications
- Biodegradable electrohydraulic soft actuators
- McKibben artificial muscles with dielectric elastomer sensor
- GPA: 2.64/3.00

2021-2023
Tokyo, Japan

B.Eng. in Informatics and Engineering, Measurements and Control Systems
The University of Electro-Communications
- Multifunctional wearable soft devices by rapid fabrication
- Soft actuator with strain sensor and proximity sensor
- GPA: 2.95/4.00

2017-2021
Tokyo, Japan

RESEARCH AND PROFESSIONAL EXPERIENCE

The University of Electro-Communications
Research Assistant
- Electrohydraulic pump

March 2023-May 2023
Tokyo, Japan

EPFL
Visiting Researcher
- Water resistant edible soft actuators

March 2022-March 2023
Lausanne, Switzerland

TEACHING EXPERIENCE

EPFL
Lecturer: "Sustainability robotics", "Mechanical Drawing,"

February 2025- July 2025
Lausanne, Switzerland

The University of Electro-Communications
Lecturer: "Control of Mobile Robots", "Mechanical Drawing,"

April 2019-October 2020
Tokyo, Japan

AWARDS AND HONORS

- **Best Paper Finalist at Excellence in Manufacturing Reproducibility**
  7th IEEE-RAS International Conference on Soft Robotics

  April 2024
  San Diego, United States

- **Alumni Association Award**
  The University of Electro-Communications

  March 2023
  Tokyo, Japan

- **Student Award**
  The University of Electro-Communications

  March 2022
  Tokyo, Japan

- **Muto Eiji Award Excellent Student Award**
  Japan Society for Design Engineering

  April 2020
  Tokyo, Japan

- **Hatakeyama Award**
  Japan Society for Mechanical Engineers

  March 2021
  Tokyo, Japan

SERVICE

Reviewer: (Journals) *IEEE Robotics and Automation Letters, Carbohydrate Polymers*
(Conferences) *IEEE International Conference on Soft Robotics (RoboSoft), IEEE International Conference on Robotics and Automation (IROS), International Conference on Ubiquitous Robots*

SKILLS

Languages: English (fluent), Japanese (native language).
Analysis: FEM, FFT.
Programming and Software: Python, MATLAB, C, C++, VISA, SolidWorks, Inventor, Fusion360.
Hardware: 3D printing, Direct Ink Writing, Screen Printing