

Koshiro Yamaguchi

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EDUCATION

Ph.D. in Aeronautics & Astronautics, (9/2018 - Present)

University of Washington, Seattle, WA

B.S. in Aerospace Engineering, (3/2018)

Nihon University, College of Science and Technology, Chiba, Japan

GPA: 3.74/4.00 (2nd ranked among 108)

AWARDS AND HONORS

- **Funai Overseas Scholarship**, 2018 - 2020
 - This scholarship funds the full amount of expenses during the first two years of my graduate study.
- **Award from the dean of the College of Science and Technology**, Nihon University, 2018
- **Award from the governor of Chiba prefecture**, 2018
- **Graduation with 2nd-class honor**, 2018
- **Merit-based Scholarship** from Nihon University, 2016 - 2017
- **F-tech Scholarship**, 2017
- **Kawamoto-Mori Educational Foundation Scholarship**, 2017
- **Doctoral Student Prize** from Nihon University, 2017
 - Prize given to an undergraduate for exceptional scholarship and research
- **2nd-place awardee**, International Gemini Mars Design Competition, 2016
 - Held at the 19th Annual International Mars Society Convention, Washington DC, USA
- **Nakamura Educational Foundation Scholarship**, 2016
- **Yamaguchi Educational Foundation Scholarship**, 2016
- **Full-tuition scholarship** from Nihon University, 2015

RESEARCH EXPERIENCE

Laboratory for Engineered Materials and Structures, the University of Washington

Research Assistant (Advisor: Prof. Jinkyu Yang)

7/2018 – Present

- Developing a data-driven prediction system for chaotic behavior of origami structure with machine learning

- Developing a simulation system for origami structures with 3D physics engine and reinforcement learning algorithm

Space Structure Systems Laboratory, Nihon University

Research Assistant (Advisor: Prof. Yasuyuki Miyazaki) 4/2017 – 3/2018

- Developed universal docking systems for multiple space structures
- Studied Flexible Multibody Dynamics for space structures

Laboratory for Engineered Materials and Structures, the University of Washington

Visiting Scholar (Advisor: Prof. Jinkyu Yang) 2/2017 – 3/2017

- Developed prototypes of Origami-based morphing wings for UAVs

Mars Society's International Gemini Mars Design Competition

Subsystems Design Manager (Advisor: Prof. Hiroyuki Miyajima) 2/2016 – 9/2016

- Designed subsystems for a two-person Mars flyby vehicle
- Won 2nd place by making a presentation on the design and plan to go to Mars

INDUSTRIAL EXPERIENCE

Educational Design Co., Ltd, Shizuoka, Japan 4/2018 – 6/2018

Developer Intern

- Developed an autonomous chatbot system for a company website
- Developed educational materials for programming for elementary school students

JOURNAL REVIEW

Proceedings of the Royal Society A

Proceedings of the National Academy of Sciences of the United States of America

SKILLS

Programming Languages

- Python, C/C++, MATLAB,

Software Libraries & Engineering Tools

- Tensorflow, OpenAI Gym, Creo, Autodesk Fusion 360, Visual Studio, Raspberry Pi, Arduino

Languages

- Japanese, native speaker
- English, fluent