

Hiroyasu Akada

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EDUCATION

Keio University Master of Science in Engineering Cumulative GPA: 3.62/4.00 Cumulative GPA: 4.00/4.00 (US-scale accredited by World Education Services)	Kanagawa, Japan <i>April 2018 - Present</i>
University of California, Berkeley, Haas School of Business Berkeley Haas Global Access Program, Entrepreneurship Cumulative GPA: 3.49/4.00	Berkeley, CA, USA <i>August 2018 - May 2019</i>
Keio University Bachelor of Engineering (with a research thesis option) Cumulative GPA: -----/4.00 Cumulative GPA: 3.68/4.00 (US-scale accredited by World Education Services)	Kanagawa, Japan <i>April 2014 - March 2018</i>

CURRENT RESEARCH INTEREST

Computer Vision, Computer Graphics, Deep Learning, Generative Adversarial Networks, 3D reconstruction, Robot Vision, Motion Capture

RESEARCH EXPERIENCE

Takahashi Lab, Keio University <i>Research Assistant (Supervisor: Prof. Masaki Takahashi)</i>	Kanagawa, Japan <i>April 2018 - Present</i>
<ul style="list-style-type: none">• Currently developing a human motion measurement system with Kinect sensors for dynamic situations by incorporating machine learning and 3D correspondence matching techniques• Developed a deep-learning-based framework (GANs) to reconstruct occluded areas in images• Collected 200,000+ images on a real farm using an autonomous agricultural robot operated on ROS• Developed object recognition and image editing algorithms to create a dataset of 70,000+ images• <u>Self-directed the entire project from choosing the topic, planning, coding, implementing, and evaluating</u>	
Sato Lab, Keio University <i>Undergraduate Research Assistant (Supervisor: Prof. Haruki Sato)</i> Bachelor Research Thesis: "Research on Securing Sustainability of Advanced Energy Use in Communities with Independent Power Supply"	Kanagawa, Japan <i>April 2017 - March 2018</i>
<ul style="list-style-type: none">• Developed a simulation model of energy-efficient community with several facilities for 400+ residents• Integrated the concept of Cluster Energy Management System into the model, which optimizes the supply and demand of electric and thermal energy in the community• Calculated the energy demand from stochastic human activities based on the Monte Carlo algorithm• Cooperated on writing a paper with several peers as a second author	

PUBLICATIONS

1. *Kohei Terashima, **Hiroyasu Akada**, Yuriko Kobayashi, Haruki Sato, Toshiharu Ikaga. "An Example of Cluster Energy Management System in Aging Society", *Proceedings of Grand Renewable Energy, P310-313, 2018*

PRESENTATIONS

1. **20th Annual Keio Science and Technology Exhibition - Keio Techno-Mall 2019**
Tokyo, Japan, December 2019
Poster presentation: "Demonstration of Smart Farming System Using Agricultural Robot Supporting Farmers"
2. **Grand Renewable Energy 2018 International Conference and Exhibition (GRE2018)**
Yokohama, Japan, June 2018
Co-author: "An Example of Cluster Energy Management System in Aging Society"

INDEPENDENT PROJECTS

Team Wolve'Z CanSat Project

Hardware Developer & Assistant Software Developer

- Awarded 3rd place for the mission competition at a nationwide CanSat competition among 25 teams
- Built a whole body of small-sized mock earth satellite using several tools including 3D CAD, 3D printer, drilling machines, NC milling machines and laser process machines
- Developed satellite's sensors for a self-localization task using Arduino and C++
- Held a Water Rocket experimental class in collaboration with JAXA (Japan Aerospace Exploration Agency) for 100+ elementary students around the Keio University campus

WORK EXPERIENCE

Tencent America

Palo Alto, CA, USA

Market Research Intern in Business Development Department

July 2019 - August 2019

- Investigated the international game market and key technologies, including VR/AR
- Made a presentation to my team about the future strategy of the company based on my market analysis

Waseda Academy

Tokyo, Japan

Assistant Teacher

April 2014 - July 2018

- Taught high school students in mathematics including calculus, linear algebra, differential equations, etc.
- Supervised 80+ students for their study and scheduling as a mentor

COMMUNITY SERVICE

International Student Volunteer Group RUIKE

Tokyo, Japan / Kathmandu, Nepal

Public Relation Manager

April 2014 - July 2018

- Volunteer work for children in Nepal for over 400 hours
- Hold study tours to Nepal, expanded local schools and taught children in collaboration with the International Support Association of School Construction (NPO)
- Managed street fundraising, crowdfunding, event donation for school expansion (\$20,000+)
- Offered online classes to children after the collapse of the schools due to the Nepal Earthquake of 2015

SCHOLARSHIPS

Japan Student Services Organization Scholarship

April 2020 - Present

- Scholarship based on academic records in the first year of the graduate degree

Japan Student Services Organization Scholarship

April 2018 - March 2020

- Scholarship based on academic records in undergraduate years

TOBITATE scholarship

August 2018 - August 2019

- Scholarship for studying abroad based on academic records and extracurricular activities

EXTRACURRICULAR ACTIVITIES

Alumni Association of Keio University "Mitakai" in San Francisco

San Francisco, CA, USA

Executive Committee Member

April 2019 - March 2020

- The youngest board member in the group of 200+ alumni
- Organized activities including general assembly, business incubation, etc.

Keio Aleks Tennis Association

Tokyo, Japan

Club Member

April 2014 - March 2017

- Played tennis with members of Keio Aleks Tennis Association club

SKILL & CERTIFICATION

Language: Japanese (Native) / English (Fluent - IELTS: 7.5) / Chinese (Conversational - HSK rank 4: 270/300)

Programming Languages: Python (Advanced) / C++, Java (Intermediate) / MATLAB (Basic)

Working knowledge: Windows, Linux (Ubuntu), CUDA, Pytorch, Keras, Open CV, Open GL, Docker, Git, ROS, LATEX