

# Takuya Nakabayashi

PHD STUDENT · SCHOOL OF SCIENCE FOR OPEN AND ENVIRONMENTAL SYSTEMS

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## Education

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### Keio University

3-14-1, Hiyoshi, Kohoku-ku,  
Yokohama, Japan

#### PH.D STUDENT

September 2023 - present

- Advisor: Dr. Hideo Saito

### Keio University

3-14-1, Hiyoshi, Kohoku-ku,  
Yokohama, Japan

#### MS DEGREE

April 2022 - September 2023

- Advisor: Dr. Hideo Saito

### Keio University

3-14-1, Hiyoshi, Kohoku-ku,  
Yokohama, Japan

#### BS UNDERGRADUATE DEGREE

April 2018 - March 2022

- Honors thesis/undergrad research advisor: Dr. Hideo Saito

## Publications

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### PUBLISHED

**Takuya Nakabayashi**, Kyota Higa, Masahiro Yamaguchi, Ryo Fujiwara, Hideo Saito. "Event-based Ball Spin Estimation in Sports". Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2024, pp. 3367-3375.

**Takuya Nakabayashi**, Hideo Saito. "Unsupervised Fall Detection on Edge Devices". 18th International Conference on Machine Vision Applications, 2023.

**Takuya Nakabayashi**, Akimasa Kondo, Kyota Higa, Andreu Girbau, Shin'ichi Satoh, Hideo Saito. "Event-based high-speed ball detection in sports video". ACM MM 2023 Workshop MMSports, 2023, pp. 55-62.

**Takuya Nakabayashi**, Kunihiro Hasegawa, Masakazu Matsugu, Hideo Saito. "Event-Based Blur Kernel Estimation for Blind Motion Deblurring". Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2023, pp. 4119-4127.

## Awards, Fellowships, & Grants

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2024	<b>JST Broadening Opportunities for Outstanding young researchers and doctoral students in Strategic areas (BOOST)</b> , Japan Science and Technology Agency	¥3,600,000
2024	<b>JST Support for Pioneering Research Initiated by the Next Generation (SPRING)</b> , Japan Science and Technology Agency	¥2,200,000
2024	<b>JSPS Overseas Challenge Program for Young Researchers</b> , Japan Society for the Promotion of Science	¥1,400,000
2022	<b>Keio Kogakukai Award</b> , Keio Kogakukai	