

# Curriculum Vitae

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## Daisuke Inoue

**Nationality:** JAPAN, Born in Otaru-shi in Hokkaido

**Current position:** Assistant Professor, Lab PI

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**E-mail:** [dinouel@design.kyushu-u.ac.jp](mailto:dinouel@design.kyushu-u.ac.jp)

**Research interests:** Cytoskeleton/ Self-organization/ Pattern formation/ Collective motion/ Nanotechnology/ Non-equilibrium system / Biophysics/ BioArt

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## [Education & Research]

**Oct. 2019 – Current:** Assistant Professor

*Faculty of Design, Kyushu University, Fukuoka, Japan*

**May. 2019 – Sep. 2019:** Postdoctoral researcher (Host researcher: Dr. **Ian Hogue**)

*Center for Immunotherapy, Vaccines, and Virotherapy, Biodesign Institute, School of Life Sciences, Biodesign Institute, Arizona State University, Tempe, AZ, USA*

**Sep. 2018 – Apr. 2019:** Postdoctoral researcher (Host researcher: Dr. **Rizal F. Hariadi**)

*Molecular Design and Biomimetics, Biodesign Institute, Arizona State University, Tempe, AZ, USA*

**Oct. 2016 – Aug. 2018:** Postdoctoral researcher (Host researcher: Dr. **Laurent Blanchoin**, Dr. **Manuel Théry**)

*Physics of Cytoskeleton and Morphogenesis Laboratory, LPCV, BIG, DRF, CEA Grenoble, Grenoble, France*

**Apr. 2016 - Sep. 2016:** Postdoctoral researcher (Host researcher: Dr. **Laurent Blanchoin**, Dr. **Manuel Théry**)

*Physics of Cytoskeleton and Morphogenesis Laboratory, Hopital Saint Louis, Institut Universitaire d'Hematologie, Université Paris Diderot, Paris, France.*

**Sep. 2015 - Mar. 2016:** Postdoctoral researcher (Host researcher: Dr. **Laurent Blanchoin**, Dr. **Manuel Théry**)

*Physics of Cytoskeleton and Morphogenesis Laboratory, LPCV, BIG, DRF, CEA Grenoble, Grenoble, France*

**Apr. 2015 - Mar. 2016:** JSPS Postdoctoral researcher (Host researcher: Dr. **Akira Kakugo**)

*Chemical department, Faculty of Science, Hokkaido University*

**Apr. 2012 - Mar. 2015:** Ph.D. Student (Supervisor: Dr. **Kazuki Sada**, Dr. **Akira Kakugo**)

*Graduate School of Chemical Sciences and Engineering, Hokkaido University*

*Dissertation title: "Effect of Stepwise Feeding and External Mechanical Stimuli on Active Self-organization of Microtubules"*

**Apr. 2010 - Mar. 2012:** M. Sc. Student (Supervisor: Dr. **Jian Ping Gong**, Dr. **Kazuki Sada**, Dr. **Akira Kakugo**)

*Graduate School of Life Sciences, Hokkaido University, Sapporo, Japan*

**Apr. 2006 - Mar. 2010:** B. Sc. Student (Supervisor: Dr. **Katsutoshi Arai**)

*Division of Marine Life Science, School of Fisheries Sciences, Hokkaido University, Hakodate, Japan*

## **[Grants and Awards]**

- The Leading Initiative for Excellent Young Researchers (LEADER) (Oct 2019)
- Kazato Research Prize (Mar. 2019)
- Uehara memorial foundation research fellowship (Apr. 2016)
- Grants for nanotechnology platform, "Trial Use" (Jul. 2015)
- Best poster award in the 15th Ries-Hokudai international symposium (Dec. 2014)
- JSPS research fellowships for young scientists (Apr. 2014 - Mar. 2016)
- Grants for creating research and education for young researchers at Faculty of Science, Hokkaido University (May 2013)

## **[Professional membership]**

- The Society of Polymer Science, Japan
- The Biophysical Society of Japan

## **[Technical skills]**

### **Experiment skills**

- Purification of proteins: tubulin, actin, kinesin, myosin and centrosome
- Modification and labelling of proteins such as fluorescent dye, biotin and DNA
- Surface modification such as Silane-PEG and Biotin-silane-PEG
- Microscope: TIRF, epifluorescence
- DNA origami
- AFM imaging
- Micropatterning of proteins
- Nanopatterning of DNA origami and proteins
- Microfabrication
- Embryo manipulation (e.g. Loach, Zebrafish, Rat)
- Cell culture (RPE1-cells, SCG-neuronal cells)

### **IT skills**

- Analysis for moving objects such as gliding microtubules; Vector analysis with PIV
- Image analysis by using ImageJ and Adobe Photoshop
- Design skill for DNA origami using Cadonano
- 2D/3D drawing pictures by using software for comic artist, Adobe Illustrator and Shade 3D

## **[Hobbies]**

- Drawing comics and illustrations
- Watching movies