

# Naoki KITA

PH.D

ASSISTANT PROFESSOR

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## Summary

I am an assistant professor at Tokyo University of Agriculture and Technology. I received my Ph.D. at Japan Advanced Institute of Science and Technology (JAIST). I received my B.S. degree in science from Kanazawa University in 2009, and my M.S. in knowledge science from JAIST in 2011. My current research interests include computational design/fabrication and human visual perception, especially in layout/arrangement for discrete elements.

## Education

### JAIST (Japan Advanced Institute of Science and Technology)

Japan

PH.D. IN KNOWLEDGE SCIENCE

Apr. 2016 - Mar. 2019

- Advisor: Kazunori Miyata

### JAIST (Japan Advanced Institute of Science and Technology)

Japan

M.S. IN KNOWLEDGE SCIENCE

Apr. 2009 - Mar. 2011

- Thesis: Interactive Procedural Modeling of Pebble Mosaics
- Advisor: Kazunori Miyata

### Kanazawa University

Japan

B.S. IN SCIENCE

Apr. 2005 - Mar. 2009

- Advisor: Toyoko Arai

## Experience

### Visual Computing Laboratory, Tokyo University of Agriculture and Technology

Japan

ASSISTANT PROFESSOR

Apr. 2019 - PRESENT

### READi Design Lab, L'École de design Nantes Atlantique

France

VISITING RESEARCHER

Feb. 2017 - Nov. 2017

- Joined IDEA (Immersive Data Exploration & Analysis) project and developed immersive VR applications.

### JAIST-DNIC (Dependable Network Innovation Center)

Japan

PROJECT RESEARCHER

Aug. 2013 - Mar. 2016

- Developed a skill map for CYDER (CYber Defense Exercise with Recurrence) project hosted by Ministry of Internal Affairs and Communications.

### Kanazawa Medical University

Japan

COLLABORATIVE RESEARCHER

Apr. 2011 - Mar. 2016

- Developed a NRBCs (Nucleated Red Blood Cell) autodetect system for non-invasive fetal DNA diagnosis from maternal blood.

### Allied Telesis Research Institute, Ltd.

Japan

SOFTWARE ENGINEER

Feb. 2015 - Oct. 2015

- Developed an in-house web service in Scala/Play Framework.
- Developed an e-learning system in Moodle and a cyber security lecture course on it.

**IPA MITOH Program**

PROJECT LEADER

Japan

Feb. 2012 - Aug. 2012

- Funded for half a year as a project leader of an exploratory IT Human Resources Project (THE MITOH Program), and developed a discrete element texture generation application.

## Publications

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**INTERNATIONAL JOURNALS**

M. Mardani, H. Mardani, L.-D. Simone, S. Varas, [N. Kita](#), and T. Saito, "Integration of Machine Learning and Open Access Geospatial Data for Land Cover Mapping", *Remote Sensing*, Vol.11, No.16, 1907, 2019.

[N. Kita](#) and K. Miyata, "Magic sheets: Visual cryptography with common shares", *Computational Visual Media*, Vol.4, No.2, pp.185–195, 2018.

[N. Kita](#) and K. Miyata, "Aesthetic Rating and Color Suggestion for Color Palettes", *Computer Graphics Forum*, Vol.35, No.7, pp.127–136, 2016.

[N. Kita](#) and K. Miyata, "Multi-class anisotropic blue noise sampling for discrete element pattern generation", *The Visual Computer*, Vol.32, No.6, pp.1035–1044, 2016.

**INTERNATIONAL CONFERENCES (ORAL PRESENTATION)**

C. Sato, [N. Kita](#), and T. Saito, "Generating Route Panoramas for Street Guide Maps", The 6th IEEEJ International Conference on Image Electronics and Visual Computing (IEVC 2019), Bali, Indonesia (August 2019).

H. Watai, [N. Kita](#), and T. Saito, "Two-Dimensional Flow Field Visualization Using Hierarchical Poisson Disk Sampling", The 6th IEEEJ International Conference on Image Electronics and Visual Computing (IEVC 2019), Bali, Indonesia (August 2019).

M. Iwasaki, [N. Kita](#), and T. Saito, "Natural Extension Method of Video Length", The 6th IEEEJ International Conference on Image Electronics and Visual Computing (IEVC 2019), Bali, Indonesia (August 2019).

[N. Kita](#) and K. Miyata, "Magic Sheet: Visual Cryptography with Common shares", CVM 2018, Shanghai, China (April 2018).

[N. Kita](#) and K. Miyata, "Aesthetic Rating and Color Suggestion for Color Palettes", Pacific Graphics (PG 2016), Okinawa, Japan (October 2016).

[N. Kita](#) and K. Miyata, "Multi-class anisotropic blue noise sampling for discrete element pattern generation", Computer Graphics International (CGI 2016), Heraklion, Crete, Greece (June 2016).

[N. Kita](#) and K. Miyata, "Interactive Procedural Modeling of Pebble Mosaics", ACM SIGGRAPH Asia 2011 Sketches, ACM SA'11, Article 35, pp.35:1–35:2, Hong Kong, China (December 2011).

K. Ishibashi, T. Da Luz, R. Eynard, [N. Kita](#), N. Jiang, H. Segi, K. Terada, K. Fujita and K. Miyata, "Spider Hero", Laval Virtual Revolution 2010, An.3, Laval, France (April 2010).

K. Ishibashi, T. Da Luz, R. Eynard, [N. Kita](#), N. Jiang, H. Segi, K. Terada, K. Fujita and K. Miyata, "Spider Hero: A VR application using pulling force feedback system", VRCAI 2010, Session 7, Tokyo, Japan (December 2009).

**INTERNATIONAL CONFERENCES (POSTER)**

M. Mardani, [N. Kita](#), and T. Saito, "Application of Deep Learning and Open Access Geospatial Cloud Processing Platforms in Land Cover Mapping", The 6th IEEEJ International Conference on Image Electronics and Visual Computing (IEVC 2019), Bali, Indonesia (August 2019).

M. Tanimizu, [N. Kita](#), and T. Saito, “Production Support of Resin Works Using Computer Graphics”, The 6th IEEE International Conference on Image Electronics and Visual Computing (IEVC 2019), Bali, Indonesia (August 2019).

[N. Kita](#) and K. Miyata, “Cube Art”, ACM SIGGRAPH Asia 2016 Posters, ACM SA’16, Article 30, pp.30:1-30:1, Macau (December 2016).

[N. Kita](#) and K. Miyata, “A rule-based method for generating bookshelf models”, ACM SIGGRAPH Asia 2010 Posters, ACM SA’10, Article 36, pp.36:1-36:2, Seoul, Korea (December 2010).

## Honors & Awards

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2019	<b>Outstanding Performance Award in the doctoral program</b> , JAIST
Jul 2018 - Mar 2019	<b>JAIST Research Grant (Fundamental Research) 2018</b> , Japan Advanced Institute of Science and Technology
2018	<b>Excellent Poster Award</b> , JAIST World Conference 2018
Apr 2017 - Mar 2019	<b>JSPS Young Research Fellowship (DC2)</b> , Japan Society for the Promotion of Science
Feb 2017 - Nov 2017	<b>JAIST Grant for Off-Campus Research</b> , Japan Advanced Institute of Science and Technology
Apr 2016 - Mar 2017	<b>JAIST Doctoral Research Fellowship (DRF)</b> , Japan Advanced Institute of Science and Technology
2016	<b>Outstanding Poster Award</b> , JAIST HLD International Symposium 2016
Feb 2012 - Aug 2012	<b>The Exploratory IT Human Resources Project (THE MITOH Program)</b> , Information Technology Promotion Agency Japan (IPA)
2011	<b>Outstanding Performance Award in the master program</b> , JAIST
2011	<b>Best Paper Award</b> , 10th NICOGRAPH Spring
2010	<b>Campus Genius Award SILVER (Interactive)</b> , 15th Campus Genius Award

## Skills

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<b>Programming</b>	Python, Ruby, C++, C#, Java, JavaScript
<b>Languages</b>	Japanese (Native), English (Intermediate)