

# Seitaro SHINAGAWA

## PERSONAL DETAILS

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*Address* Augmented Human Communication Laboratory  
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*GitHub* <https://github.com/SeitaroShinagawa>

## INTEREST

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I am interested in human computer interaction system using vision and language. I am currently working on image manipulation system with natural language.

## EDUCATION

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**Ph.D.** 2015-2020  
Graduate School of Information Sciences, Nara Institute of Science and Technology, Japan  
Supervisor: Professor Satoshi NAKAMURA  
Doctor Thesis: [A Conversational System for Interactive Image Editing](#)

**M.Sc (Information Science)** 2013-2015  
Graduate School of Information Sciences, Tohoku University, Japan  
Supervisor: Professor Koji NAKAJIMA  
Thesis Title: A Study of Deep Neural Networks with Quantized Weights

**B.Sc** 2009-2013  
Department of Information and Intelligent Systems, Tohoku University, Japan  
Supervisor: Professor Koji NAKAJIMA

## WORK EXPERIENCE

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**Assistant Professor** 2020-present  
Nara Institute of Science and Technology

**Research Assistant** 2017-2020  
RIKEN, Center for Advanced Intelligence Project AIP

**Research Assistant** 2015-2020  
Nara Institute of Science and Technology  
Supervisor: Professor Satoshi NAKAMURA

**Teaching Assistant** 2014  
Department of Information and Intelligent Systems, Tohoku University  
Experiment A: the basic phenomena associated with Electrical Engineering

## REPRESENTATIVE PUBLICATIONS

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- [1] Shinagawa, S., Yoshino, K., Hossein Alavi, S., Georgila, K., Traum, D., and Nakamura, S. (2020). An interactive image editing system using an Uncertainty-Based confirmation strategy. *IEEE Access*.
- [2] Shinagawa, S., Yoshino, K., Sakti, S., Suzuki, Y., and Nakamura, S. (2018). Interactive avatar image manipulation with unconstrained natural language instruction using source image masking. *The 21st Meeting on Image Recognition and Understanding (MIRU), OS2-S3*.
- [3] S.Shinagawa, K.Yoshino, S.Sakti, Y.Suzuki, and S.Nakamura (2017). Interactive image manipulation with natural language instruction commands. *NIPS Visually-Grounded Interaction and Language (ViGIL) workshop*.

## AWARDS

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### Student Award

2018 August

Seitaro Shinagawa, Koichiro Yoshino, Sakriani Sakti, Yu Suzuki, Satoshi Nakamura, "Interactive Avatar Image Manipulation with Unconstrained Natural Language Instruction using Source Image Masking", The 21st Meeting on Image Recognition and Understanding (MIRU), OS2-S3, 2018

### Monthly Best Presentation Award

2017 June

Seitaro Shinagawa, Koichiro Yoshino, Sakriani Sakti, Satoshi Nakamura, "Toward Image Manipulation System based on DNN", Pattern Recognition and Media Understanding (PRMU) Society, Institute of Electronics, Information and Communication Engineers (IEICE)

## GRANTS

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### KAKEN

2021 April - 2024 March

[Development of an Image Generation Platform Based on Structured Expressions Associated with Natural Language](#) (4,680,000 yen)

### Tobitate Young Ambassador Program

2019 March - June

For the short term internship at The University of Southern California Institute for Creative Technologies (890,000 yen)

### Creative and International Competitiveness Project (CICP)

2016 August

The internal student grant of Nara Institute of Science and Technology

Title: "High Context Multimodal Dialog Corpus in Werewolf Games" (500,000 yen)

## SKILLS

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### Lecture experience

- Data Science (a part of lecture, 2021)

- [Special Lecture in Information Science B, D 1 \(Recent trends in Augmented Human Communication research\)](#) (2021)

### Programming Language

Python (7 years, mainly use), matlab (2 years), C (2 years), C++ (half year)