

# Seitaro SHINAGAWA

## PERSONAL DETAILS

*Address* Augmented Human Communication Laboratory  
Graduate School of Information Science  
Nara Institute of Science and Technology  
8916-5 Takayama-cho, Ikoma, Nara 630-0192, Japan

*E-Mail* [shinagawa.seitaro.si8@is.naist.jp](mailto:shinagawa.seitaro.si8@is.naist.jp)

## INTEREST

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

## EDUCATION

**Ph.D. student** 2015-present  
Graduate School of Information Sciences, Nara Institute of Science and Technology, Japan  
Supervisor: Professor Satoshi NAKAMURA

<b>M.Sc (Information Science)</b>	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

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

**Research Assistant** 2015-present  
 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

## PEER-REVIEWED PUBLICATIONS

- [1] 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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### Tobitate Young Ambassador Program

2019 March - June

For the short term internship at The University of Southern California Institute for Creative Technologies I'm going to study about "Dialog based Image Generation"

### 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"

## SKILLS

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### Programming Language

Python (4 years, mainly use), matlab (2 years), C (2 years), C++ (half year)

### Platforms

Linux (Ubuntu, Debian), Windows (7, 8, 10)

### Deep Learning Frameworks

Pytorch, Chainer, Tensorflow

## OTHERS

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### Development Experience

- Development of sentence annotation tool for crowdsourcing with Django
- Chainer Reproduction of Multiple Timescales RNN, DCGAN, DRAW, StarGAN, Partial convolution for image in-painting ([github](#))
- Reproduction of image-captioning model, beam search

### Links

twitter : [@sei\\_shinagawa](#)

github : <https://github.com/SeitaroShinagawa>

slideshare : <https://www.slideshare.net/ShinagawaSeitaro>