

NORIKI NISHIDA

RIKEN Center for Advanced Intelligence Project (AIP)

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<https://norikinishida.github.io>

RESEARCH AREAS

My research is aimed at developing computational technology to analyze natural language text, extract useful information from it, and support knowledge retrieval and discovery. In particular, I am working on discourse analysis and knowledge acquisition from biomedical articles.

EMPLOYMENT HISTORY

- **Postdoctoral Researcher**, RIKEN AIP, April 2020 - Present.
- **Part-Time Lecturer**, University of Tsukuba, April 2022 - Present.
- **Visiting Researcher**, The University of Tokyo, July 2020 - June 2021.
- **Young Research Fellow (DC2)**, the Japan Society for the Promotion of Science, April 2018 - March 2020.
- **External Collaborator**, the PLU Group in AIRC, April 2016 - March 2020.
- **Part-time Software Engineer**, Logarhythm Inc., November 2014 - August 2015.

EDUCATION

Ph.D. of Information Science and Technology

March 2020

Department of Creative Informatics

Graduate School of Information Science and Technology

The University of Tokyo

Dissertation title: “Unsupervised Induction of Natural Language Discourse Structure Based on Rhetorical Structure Theory”

Advisor: Hideki Nakayama

Master’s Degree in Information Science and Technology

March 2017

Department of Creative Informatics

Graduate School of Information Science and Technology

The University of Tokyo

Thesis title: “Unsupervised Learning of Syntactically Plausible Word Representations by Solving Word Ordering”

Advisor: Hideki Nakayama

Bachelor’s Degree in Engineering

March 2015

Department of Information and Communication Engineering

Faculty of Engineering

The University of Tokyo

Thesis title: “Hand Gesture Recognition Using Recurrent Convolutional Neural Networks”

Advisor: Hitoshi Iba, Yoshihiko Hasegawa

TEACHING HISTORY

- **Data Science**, University of Tsukuba, October 2022 - March 2023.
- **Information Literacy**, University of Tsukuba, April 2022 - September 2022.
- **Data Science**, The University of Tokyo, TA, October 2017 - March 2018.
- **Basic Programming Exercise**, The University of Tokyo, TA, October 2014 - March 2015.

PUBLICATIONS

Journal Articles

- [Noriki Nishida](#) and Yuji Matsumoto. 2022.
Out-of-Domain Discourse Dependency Parsing via Bootstrapping: An Empirical Analysis on Its Effectiveness and Limitation.
Transactions of the Association for Computational Linguistics, vol.10, pp.127–144. (presented in ACL 2022)
- [Noriki Nishida](#) and Hideki Nakayama. 2020.
Unsupervised Discourse Constituency Parsing Using Viterbi EM.
Transactions of the Association for Computational Linguistics, vol.8, pp.215–230. (presented in ACL 2020)
- Hideki Nakayama and [Noriki Nishida](#). 2017.
Zero-Resource Machine Translation by Multimodal Encoder-Decoder Network with Multimedia Pivot.
Machine Translation, vol.31, no.1, pp.49–64.

International Conferences (refereed)

- Hisashi Kamezawa, [Noriki Nishida](#), Nobuyuki Shimizu, Takashi Miyazaki, Hideki Nakayama. 2022.
RNSum: A Large-Scale Dataset for Automatic Release Note Generation via Commit Logs Summarization.
In Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (ACL 2022).
- Hisashi Kamezawa, [Noriki Nishida](#), Nobuyuki Shimizu, Takashi Miyazaki, Hideki Nakayama. 2020.
A Visually-grounded First-person Dialogue Dataset with Verbal and Non-verbal Responses.
In Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP 2020).
- [Noriki Nishida](#) and Hideki Nakayama. 2018.
Coherence Modeling Improves Implicit Discourse Relation Recognition.
In Proceedings of the 19th Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2018).
- [Noriki Nishida](#) and Hideki Nakayama. 2017.
Word Ordering as Unsupervised Learning Towards Syntactically Plausible Word Representations.

In Proceedings of the 8th International Joint Conference on Natural Language Processing (IJCNLP 2017).

- Natsuda Laokulrat, Sang Phan, Noriki Nishida, Raphael Shu, Yo Ehara, Naoaki Okazaki, Yusuke Miyao, Shin'ichi Satoh, Hideki Nakayama. 2016.

Generating Video Description Using Sequence-to-Sequence Model with Temporal Attention.

In Proceedings of the 26th International Conference on Computational Linguistics (COLING 2016).

- Noriki Nishida and Hideki Nakayama. 2015.

Multimodal Gesture Recognition Using Multi-Stream Recurrent Neural Network.

In Proceedings of the 7th Pacific-Rim Symposium on Image and Video Technology (PSIVT 2015).

International Workshops

- Jun Takeuchi, Noriki Nishida, and Hideki Nakayama. 2022.

Neural Networks in a Product of Hyperbolic Spaces.

Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics: Student Research Workshop (NAACL-SRW 2022).

- Noriki Nishida and Yuji Matsumoto. 2022.

GENIA-DTB: A Discourse Dependency Treebank for Biomedical Paper Abstracts.

In Fifth International Workshop on SCientific DOCument Analysis (SCIDOCA 2022).

- Noriki Nishida and Yuji Matsumoto. 2020.

An Empirical Study of Proxy-labeling for Adaptation of Discourse Dependency Parsing.

In Fourth International Workshop on SCientific DOCument Analysis (SCIDOCA 2020).

- Shibahara Takayoshi, Ikuya Yamada, Noriki Nishida, Shanshan Liu, Kouji Kozaki, Taro Watanabe, Yuji Matsumoto. 2020.

Preliminary Experiments of Span-based Distant Supervision for Biomedical NER.

In Fourth International Workshop on SCientific DOCument Analysis (SCIDOCA 2020).

AWARDS

- **Outstanding Reviewer**, the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP), December 2020.
- **Young Researcher Encouragement Award**, the Annual Meeting of the Association for Natural Language Processing (NLP), March 2020.
- **Annual Conference Award**, the Japanese Society of Artificial Intelligence (JSAI), July 2017.

TALKS

- **Machine Learning for Knowledge Acquisition from Scholarly Articles.**
The 2022 Annual Meeting of the Biometric Society of Japan, May 2022.
- **Towards Unsupervised Discourse Parsing.**
The Perception and Language Understanding (PLU) Group in Artificial Intelligence Research Center (AIRC), Japan, November 2018.
- **Deep Learning for Computer Vision.**

Kansai Chapter of the Acoustic Society of Japan, March 2016.

- **Deep Learning for Video Recognition.**

Promotech Simulation Conference, Japan, September 2015.

RESEARCH GRANTS

- **JST AIP Challenge Program**, July 2022 - March 2023.
- **JSPS KAKENHI Grant-in-Aid for Transformative Research Areas (B) (Co-Investigator)**, May 2022 - March 2025.
- **JSPS KAKENHI Grant-in-Aid for Early-Career Scientists**, April 2021 - March 2024.
- **JSPS KAKENHI Research Fellowship for Young Scientists (DC2)**, April 2018 - March 2020.

ACADEMIC ACTIVITIES

- Journal Reviewer
 - Language Resources and Evaluation: 2021
 - Transaction of ANLP: 2020-
- Conference Reviewer
 - ACL Rolling Review: 2021-
 - ACL: 2020-
 - EMNLP: 2020-
 - NAACL: 2021-
 - EACL: 2021-
 - AAAI: 2019
 - IJCAI: 2018, 2020
 - ANLP (domestic conference): 2021-
 - MIRU (domestic conference): 2020-

SKILLS

Natural Language Processing
Machine Learning
Computer Vision
Programming

Document/sentence structure analysis, text mining
Unsupervised learning, deep learning, multimodal processing
Video (gesture) recognition, OpenCV
Python, Java, C, C++, SQL, Linux