

NORI KI NISHIDA

RIKEN Center for Advanced Intelligence Project (AIP)

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RESEARCH AREAS

I work in the area of natural language processing and computational linguistics. Particularly, I am interested in discourse analysis such as discourse structure parsing and coherence modeling. I am also interested in information extraction and knowledge acquisition for biomedical domains.

PROFESSIONAL EMPLOYMENT

Postdoctoral Researcher, RIKEN Center for Advanced Intelligence Project (AIP), April 2020 - Present.

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

WORK HISTORY

- **Postdoctoral Researcher**, RIKEN AIP, April 2020 - Present.
- **Visiting Researcher**, The University of Tokyo, July 2020 - Jun 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.

TEACHING

- **Teaching Assistant** in Data Science, The University of Tokyo, October 2017 - March 2018.
- **Teaching Assistant** in Basic Programming Exercise, The University of Tokyo, 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. (will be 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. 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

- 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

- **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

- **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