Noriki Nishida, Ph.D.

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Research Areas

My research is aimed at developing computational technology to analyze natural language text, extract information from it, and support knowledge retrieval and discovery. In particular, I am working on discourse analysis (e.g., discourse structure parsing, coherence modeling), information extraction (e.g., relation extraction), and knowledge acquisition for biomedical articles.

Employment History

Apr. 2020 – Present	**Postdoctoral Researcher.** RIKEN AIP.
Apr. 2022 – Present	**Part-Time Lecturer.** University of Tsukuba.
Jul. 2020 – Jun. 2021	**Visiting Researcher.** The University of Tokyo.
Apr. 2018 – Mar. 2020	**Young Research Fellow (DC2).** The Japan Society for the Promotion of Science.
Apr. 2016 – Mar. 2020	**External Collaborator.** The PLU Group in AIRC.
Nov. 2014 – Aug. 2015	**Part-Time Software Engineer.** Logarhythm Inc.

Education

Mar. 2020 — **Ph.D. of Information Science and Technology.**
Department of Creative Informatics, Graduate School of Information Science and Technology, The University of Tokyo.
Thesis title: *Unsupervised Induction of Natural Language Discourse Structure Based on Rhetorical Structure Theory.*
Advisor: Hideki Nakayama.

Mar. 2017 — **Master's Degree in Information Science and Technology.**
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.

Mar. 2015 — **Bachelor's Degree in Engineering.**
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 and Yoshihiko Hasegawa.

Teaching History

Oct. 2022 – Mar. 2023	**Data Science.** University of Tsukuba.
Apr. 2022 – Sep. 2022	**Information Literacy.** University of Tsukuba.
Oct. 2017 – Mar. 2018	**Data Science.** Teaching Assistant, The University of Tokyo.

Teaching History (continued)

Oct. 2014 – Mar. 2015 **Basic Programming Exercise.** Teaching Assistant, The University of Tokyo.

Research Publications

Journal Articles

1. **Nishida**, **N.**, & Matsumoto, Y. (2022). Out-of-domain discourse dependency parsing via bootstrapping: An empirical analysis on its effectiveness and limitation. *Transactions of the Association for Computational Linguistics*, *10*, 127–144. Presented at ACL 2022. doi:10.1162/tacl_a_00451
2. **Nishida**, **N.**, & Nakayama, H. (2020). Unsupervised discourse constituency parsing using Viterbi EM. *Transactions of the Association for Computational Linguistics*, *8*, 215–230. Presented at ACL 2020. doi:10.1162/tacl_a_00312
3. Nakayama, H., & **Nishida**, **N.** (2017). Zero-resource machine translation by multimodal encoder-decoder network with multimedia pivot. *Machine Translation*, *31*(1), 49–64. doi:10.1007/s10590-017-9197-z

Conference Proceedings (refereed)

1. Kamezawa, H., **Nishida**, **N.**, Shimizu, N., Miyazaki, T., & Nakayama, H. (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)*. doi:10.18653/v1/2022.acl-long.597
2. Takeuchi, J., **Nishida**, **N.**, & Nakayama, H. (2022). Neural networks in a product of hyperbolic spaces. In *Proceedings of the 2022 conference of the north american chapter of the association for computational linguistics: Student research workshop (NAACL-SRW 2022)*.
3. Kamezawa, H., **Nishida**, **N.**, Shimizu, N., Miyazaki, T., & Nakayama, H. (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)*. doi:10.18653/v1/2020.emnlp-main.267
4. **Nishida**, **N.**, & Nakayama, H. (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)*. doi:10.18653/v1/W18-5040
5. **Nishida**, **N.**, & Nakayama, H. (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)*. Retrieved from https://www.aclweb.org/anthology/I17-1008
6. Laorulrat, N., Phan, S., Nishida, R., Noriki Shu, Ehara, Y., Okazaki, N., Miyao, Y., … Nakayama, H. (2016). Generating video description using sequence-to-sequence model with temporal attention. In *Proceedings of the 26th international conference on computational linguistics (COLING 2016)*. Retrieved from https://www.aclweb.org/anthology/C16-1005
7. **Nishida**, **N.**, & Nakayama, H. (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)*. doi:10.1007/978-3-319-29451-3_54

Awards

Dec. 2020	**Outstanding Reviewer.** The 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022).
Mar. 2020	**Young Researcher Encouragement Award.** The Annual Meeting of the Association for Natural Language Processing.
Jul. 2017	**Annual Conference Award.** The Japan Society of Artificial Intelligence (JSAI).

Talks

May. 2022	**Machine Learning for Knowledge Acquisition from Scholarly Articles.** The 2022 Annual Meeting of the Biometric Society of Japan.
Nov. 2018	**Towards Unsupervised Discourse Parsing.** The Perception and Language Understanding (PLU) Group in Artificial Intelligence Research Center (AIRC), Japan.
Mar. 2016	**Deep Learning for Computer Vision.** Kansai Chapter of the Acoustic Society of Japan.
Sep. 2015	**Deep Learning for Video Recognition.** Prometech Simulation Conference, Japan.

Research Grants

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

Academic Activities

Journal Reviewer	Language Resources and Evaluation, Transaction of ANLP.
Conference Reviewer	ACL Rolling Review, ACL, EMNLP, NAACL, EACL, COLING, AAAI, IJCAI, ANLP, MIRU.

Skills

Languages	Strong reading, writing and speaking competencies for English and Japanese.
Programming	Python, Java, C++, JavaScript, SQL, Linux, LaTeX, ...