Noriki Nishida, Ph.D.

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Research Areas

My research is aimed at automatically extracting useful knowledge from large numbers of documents, organizing them, and supporting knowledge retrieval and discovery. In particular, I focuses on biomedical knowledge acquisition and discourse analysis.

Employment History

Dec. 2023 – Present	**Researcher.** RIKEN AIP.
Apr. 2022 – Present	**Part-Time Lecturer.** University of Tsukuba.
Jul. 2020 – Jun. 2021	**Visiting Researcher.** The University of Tokyo.
Apr. 2020 – Nov. 2023	**Postdoctoral Researcher.** RIKEN AIP.
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 – Present	**Data Science.** University of Tsukuba.
Apr. 2022 – Present	**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

- June. 2023 — **Standard Supervision vs. Context Learning in NLP.** GPT4 Journal Club Series (RIKEN AIP mini workshop).
- 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 in Computer Vision.** Kansai Chapter of the Acoustic Society of Japan.
- Sep. 2015 — **Deep Learning in 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

- Program Committee — EMNLP 2023 Publicity Chairs; SCIDOCA 2021,2022,2023
- Journal Editor — Journal of Natural Language Processing (Apr. 2023 – Present)
- Journal Reviewer — Language Resources and Evaluation; ACM Transactions of Asian and Low-Resource Language Information Processing; Journal of Natural Language Processing
- Conference Reviewer — ACL Rolling Review; ACL; NAACL; EACL; EMNLP; COLING; AAAI; IJCAI.

Skills

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