

# Noriki Nishida, Ph.D.

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🌐 <https://norikinishida.github.io>

🐙 <https://www.github.com/norikinishida>

## Research Areas

I have been working on natural language processing, especially discourse analysis, knowledge acquisition, and their medical and healthcare applications. I am interested in automatically analyzing specialized documents such as scientific papers, extracting useful information from them, and organizing it as a knowledge base, to improve knowledge retrieval and discovery systems.

## Employment History

Dec. 2023 – Present	📌 <b>Researcher.</b> RIKEN AIP.
Apr. 2022 – Present	📌 <b>Part-Time Lecturer.</b> University of Tsukuba.
Jul. 2020 – Jun. 2021	📌 <b>Visiting Researcher.</b> The University of Tokyo.
Apr. 2020 – Nov. 2023	📌 <b>Postdoctoral Researcher.</b> RIKEN AIP.
Apr. 2018 – Mar. 2020	📌 <b>Young Research Fellow (DC2).</b> The Japan Society for the Promotion of Science.
Apr. 2016 – Mar. 2020	📌 <b>External Collaborator.</b> The PLU Group in AIRC.
Nov. 2014 – Aug. 2015	📌 <b>Part-Time Software Engineer.</b> Logarhythm Inc.



## Education

Mar. 2020	📌 <b>Ph.D. of Information Science and Technology.</b> Department of Creative Informatics, Graduate School of Information Science and Technology, The University of Tokyo. Thesis title: <i>Unsupervised Induction of Natural Language Discourse Structure Based on Rhetorical Structure Theory.</i> Advisor: Hideki Nakayama.
Mar. 2017	📌 <b>Master's Degree in Information Science and Technology.</b> Department of Creative Informatics, Graduate School of Information Science and Technology, The University of Tokyo. Thesis title: <i>Unsupervised Learning of Syntactically Plausible Word Representations by Solving Word Ordering.</i> Advisor: Hideki Nakayama.
Mar. 2015	📌 <b>Bachelor's Degree in Engineering.</b> Department of Information and Communication Engineering, Faculty of Engineering, The University of Tokyo. Thesis title: <i>Hand Gesture Recognition Using Recurrent Convolutional Neural Networks.</i> Advisor: Hitoshi Iba and Yoshihiko Hasegawa.

## Teaching History




Oct. 2022 – Present	📌 <b>Data Science.</b> University of Tsukuba.
Apr. 2022 – Present	📌 <b>Information Literacy.</b> University of Tsukuba.

## Teaching History (continued)





- Oct. 2017 – Mar. 2018      **Data Science.** Teaching Assistant, The University of Tokyo.
- Oct. 2014 – Mar. 2015      **Basic Programming Exercise.** Teaching Assistant, The University of Tokyo.

## Research Publications

### Journal Articles




- 1 Shibahara, T., Yamada, I., **Nishida, N.**, Teranishi, H., Kozaki, K., & Matsumoto, Y. (2024). Weakly supervised NER using thesaurus hierarchical structure. *Journal of Natural Language Processing*, 31(3).
- 2 **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/tac1\_a\_00451
- 3 **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/tac1\_a\_00312
- 4 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 Chen, Y., **Nishida, N.**, Nakayama, H., & Matsumoto, Y. (2024). Recent trends in personalized dialogue generation: A review of datasets, methodologies, and evaluations. In *Proceedings of the 2024 joint international conference on computational linguistics, language resources and evaluation (lrec-coling 2024)*.
- 2 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
- 3 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)*.
- 4 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
- 5 **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
- 6 **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>

- 7 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>
- 8 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. In-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


## Academic Activities (continued)


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Conference Reviewer      ACL Rolling Review; ACL; NAACL; EACL; EMNLP; COLING; AAAI; IJCAI.

## Skills

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Languages      Strong reading, writing and speaking competencies for English and Japanese.

Programming      Python, Java, C++, SQL, Linux, L<sup>A</sup>T<sub>E</sub>X, etc.