

# Noriki Nishida, Ph.D.

📖 RIKEN AIP, Nihonbashi 1-chome Mitsui Bldg., 15th floor, 1-4-1 Nihonbashi, Chuo-ku, Tokyo 103-0027, Japan

✉ [noriki.nishida@riken.jp](mailto:noriki.nishida@riken.jp)

🌐 <https://norikinishida.github.io>

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

## Profile

I am a Research Scientist at RIKEN Center for Advanced Intelligence Project (AIP), Japan. Previously, I received my Ph.D. degree in Information Science and Technology from The University of Tokyo in 2020. I have been working on research and development in natural language processing, with a particular focus on knowledge acquisition, information extraction, discourse analysis, multimodal modeling, large language models, and their applications in domains such as medicine and healthcare.

## Employment History

Dec. 2023 – Present	📌 <b>Research Scientist.</b> RIKEN AIP.
Apr. 2022 – Mar. 2025	📌 <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 – Mar. 2025	📌 <b>Data Science.</b> University of Tsukuba.
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## Teaching History (continued)

- Apr. 2022 – Mar. 2025     **Information Literacy.** University of Tsukuba.  
Oct. 2017 – Mar. 2018     **Data Science.** The University of Tokyo. (TA)  
Oct. 2014 – Mar. 2015     **Basic Programming Exercise.** The University of Tokyo. (TA)

## 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), 984–1014.
- 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 **Nishida, N.**, Inoue, K., Nakayama, H., Bono, M., & Takanashi, K. (2025). Do Multimodal Large Language Models Truly See What We Point At? Investigating Indexical, Iconic, and Symbolic Gesture Comprehension. In *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL 2025 Main Conference)*. To Appear.
- 2 Munne, R. F., **Nishida, N.**, Liu, S., Tokunaga, N., Yamagata, Y., Kozaki, K., & Matsumoto, Y. (2025). Zero-Shot Entailment Learning for Ontology-Based Biomedical Annotation Without Explicit Mentions. In *Proceedings of the 31st International Conference on Computational Linguistics (COLING 2025)* (pp. 8148–8159). Retrieved from  <https://aclanthology.org/2025.coling-main.542/>
- 3 El Khettari, O., **Nishida, N.**, Liu, S., Munne, R. F., Yamagata, Y., Quiniou, S., ... Matsumoto, Y. (2024). Mention-Agnostic Information Extraction for Ontological Annotation of Biomedical Articles. In *Proceedings of the 23rd Workshop on Biomedical Natural Language Processing (BioNLP 2024)* (pp. 457–473). Note: El Khettari and Nishida contributed equally to this work.  doi:10.18653/v1/2024.bionlp-1.37
- 4 Chen, Y.-P., **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)* (pp. 13650–13665). Retrieved from  <https://aclanthology.org/2024.lrec-main.1192/>
- 5 Wakamiya, S., Pereira, L. K., Reithel, L., Yeh, H., Han, P., Shimizu, S., ... Aramaki, E. (2023). NTCIR-17 MedNLP-SC Social Media Adverse Drug Event Detection: Subtask Overview. In *Proceedings of the 17th ntcir conference on evaluation of information access technologies (ntcir-17)*. Retrieved from  <https://research.nii.ac.jp/ntcir/workshop/OnlineProceedings17/pdf/ntcir/01-NTCIR17-OV-MEDNLP-WakamiyaS.pdf>

- 6 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 S. Muresan, P. Nakov, & A. Villavicencio (Eds.), *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (ACL 2022)* (pp. 8718–8735). [doi:10.18653/v1/2022.acl-long.597](https://doi.org/10.18653/v1/2022.acl-long.597)
- 7 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: Human Language Technologies: Student Research Workshop (NAACL-SRW 2022)* (pp. 211–221). [doi:10.18653/v1/2022.naacl-srw.27](https://doi.org/10.18653/v1/2022.naacl-srw.27)
- 8 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)* (pp. 3299–3310). [doi:10.18653/v1/2020.emnlp-main.267](https://doi.org/10.18653/v1/2020.emnlp-main.267)
- 9 **Nishida, N.**, & Nakayama, H. (2018). Coherence Modeling Improves Implicit Discourse Relation Recognition. In *Proceedings of the 19th Annual SIGdial Meeting on Discourse and Dialogue (SIGDIAL 2018)* (pp. 344–349). [doi:10.18653/v1/W18-5040](https://doi.org/10.18653/v1/W18-5040)
- 10 **Nishida, N.**, & Nakayama, H. (2017). Word Ordering as Unsupervised Learning Towards Syntactically Plausible Word Representations. In *Proceedings of the Eighth International Joint Conference on Natural Language Processing (IJCNLP 2017)* (pp. 70–79). Retrieved from <https://aclanthology.org/I17-1008/>
- 11 Laokulrat, N., Phan, S., **Nishida, N.**, Shu, R., Ehara, Y., Okazaki, N., ... Nakayama, H. (2016). Generating Video Description using Sequence-to-sequence Model with Temporal Attention. In *Proceedings of COLING 2016, the 26th International Conference on Computational Linguistics: Technical Papers (COLING 2016)* (pp. 44–52). Retrieved from <https://aclanthology.org/C16-1005/>
- 12 **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](https://doi.org/10.1007/978-3-319-29451-3_54)



## Awards

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





## Talks

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| Mar. 2025 | ■ <b>Choosing to Conduct Research at a National Research Institute in This Era.</b> The SOKENDAI Career Path Support Seminar.           |
| Jun. 2023 | ■ <b>Standard Supervision vs. In-Context Learning in NLP.</b> RIKEN AIP.  |
| May 2022  | ■ <b>Machine Learning for Knowledge Acquisition from Scholarly Articles.</b> The 2022 Annual Meeting of the Biometric Society of Japan. |
| Nov. 2018 | ■ <b>Towards Unsupervised Discourse Parsing.</b> Artificial Intelligence Research Center (AIRC), Japan.                                 |





## Talks (continued)

- Mar. 2016     **Deep Learning in Computer Vision.** Kansai Chapter of the Acoustic Society of Japan.
- Sep. 2015     **Deep Learning in Video Recognition.** Promotech Simulation Conference 2025.



## 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, L<sup>A</sup>T<sub>E</sub>X, etc.