

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

🌐 <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	📌 Research Scientist , RIKEN AIP.
Apr. 2022 – Mar. 2025	📌 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.

Research Publications

Preprint

- 1 Liu, S., **Nishida, N.**, Munne, R. F., Tokunaga, N., Yamagata, Y., Kozaki, K., & Matsumoto, Y. (2025). Ma-coir: Leveraging semantic search index and generative models for ontology-driven biomedical concept recognition. arXiv: 2505.12964 [cs.CL]. Retrieved from <https://arxiv.org/abs/2505.12964>

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](https://doi.org/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](https://doi.org/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](https://doi.org/10.1007/s10590-017-9197-z)

Refereed Conference Proceedings

- 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). (El Khettari and Nishida contributed equally to this work). [doi:10.18653/v1/2024.bionlp-1.37](https://doi.org/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)

Lectures

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

Talks

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

Talks (continued)

- Mar. 2016 ■ **“Deep Learning in Computer Vision,”** Invited Talk at Kansai Chapter of the Acoustic Society of Japan.
- Sep. 2015 ■ **“Deep Learning in Video Recognition,”** Invited Talk at Prometech Simulation Conference 2015.

Awards

- Dec. 2020 ■ **Outstanding Reviewer,** EMNLP 2022.
- Mar. 2021 ■ **Young Researcher Encouragement Award,** Shota Sugiura (co-authored), The Annual Meeting of the Association for Natural Language Processing.
- Mar. 2020 ■ **Young Researcher Encouragement Award,** The Annual Meeting of the Association for Natural Language Processing.
- Sep. 2017 ■ **Student Encouragement Award,** Yuki Kobayashi (co-authored), Japan Society for Software Science and Technology.
- Jul. 2017 ■ **Annual Conference Award,** The Japan Society of Artificial Intelligence (JSAI).


Research Grants

- Jul. 2022 – Mar. 2023 ■ **“Application of Discourse Analysis for Knowledge Acquisition from Medical and Pharmacological Literature,”** JST AIP Challenge Program, Principal Investigator.
- May. 2022 – Mar. 2025 ■ **“Modality Crossing Based on Latent Structural Understanding in Multimodal Dialogue Translation,”** JSPS KAKENHI Grant-in-Aid for Transformative Research Areas (B), Co-Investigator.
- Apr. 2021 – Mar. 2024 ■ **“Discourse Structure Analysis in Biomedical Literature for Biomedical Knowledge Acquisition,”** JSPS KAKENHI Grant-in-Aid for Early-Career Scientists, Principal Investigator.
- Apr. 2018 – Mar. 2020 ■ **“Deep Learning Models for Natural Language Understanding Incorporating Discourse Structure and Knowledge,”** JSPS KAKENHI Research Fellowship for Young Scientists (DC2), Principal Investigator.


Academic Activities


- Program Committee ■ EMNLP 2023 (Publicity Chairs).
SCIDOCA 2021–2025.
- 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)

Conference Reviewer  ACL Rolling Review.
*ACL.
EMNLP.
COLING.
COLM.
AAAI.
IJCAI.

Skills

Languages  Japanese (native).
English (professional).

Programming  Python, Java, C++, SQL, PyTorch, HuggingFace, Linux, \LaTeX , etc.