Noriki Nishida, Ph.D.

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Research Areas

I have been working on research and development in natural language processing, with a particular focus on knowledge acquisition, information extraction, and their applications in specialized domains such as medical and healthcare. I am interested in automatically extracting and organizing useful knowledge from large document collections to facilitate knowledge discovery.

Employment History

Dec. 2023 – Present	**Research Scientist.** 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 Shibahara, T., Yamada, I., **Nishida**, **N.**, Teranishi, H., Kozaki, K., & Matsumoto, Y. (2024). Weakly Supervised NER using Thesaurus Hierarchical Structure. *Journal of Natural Langauge 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/tacl_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/tacl_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 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* (pp. 8148–8159). Retrieved from 🔗 https://aclanthology.org/2025.coling-main.542/

2 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/

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* (pp. 457–473). 🔗 doi:10.18653/v1/2024.bionlp-1.37

4 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

5 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 (volume 1: Long papers)* (pp. 8718–8735). 🔗 doi:10.18653/v1/2022.acl-long.597

6 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* (pp. 211–221). 🔗 doi:`10.18653/v1/2022.naacl-srw.27`

7 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)* (pp. 3299–3310). 🔗 doi:`10.18653/v1/2020.emnlp-main.267`

8 **Nishida**, **N.**, & Nakayama, H. (2018). Coherence modeling improves implicit discourse relation recognition. In *Proceedings of the 19th annual SIGdial meeting on discourse and dialogue* (pp. 344–349). 🔗 doi:`10.18653/v1/W18-5040`

9 **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 (volume 1: Long papers)* (pp. 70–79). Retrieved from 🔗 `https://aclanthology.org/I17-1008/`

10 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* (pp. 44–52). Retrieved from 🔗 `https://aclanthology.org/C16-1005/`

11 **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

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.