# 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 extracting and systematizing specialized knowledge from large collections of documents.

## Employment History

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| 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

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| 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

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| 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).

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. 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)*. Retrieved from 🔗 `https://aclanthology.org/2024.lrec-main.1192`

2. Khettari, O. E., **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)*.

3. 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`

4. 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`

5. 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)*. 🔗 doi:`https://doi.org/10.18653/v1/2022.naacl-srw.27`

**6** 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`

**7** **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`

**8** **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`

**9** Laorulrat, 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 the 26th international conference on computational linguistics (COLING 2016).* Retrieved from 🔗 `https://www.aclweb.org/anthology/C16-1005`

**10** **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

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| 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

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| 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

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| Jul. 2022 – Mar. 2023 | 🔖 | **JST AIP Challenge Program.** |
| May. 2022 – Mar. 2025 | 🔖 | **JSPS KAKENHI Grant-in-Aid for Transformative Research Areas (B)** (Co-Investigator). |

## Research Grants (continued)

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| 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

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| 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

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