

# Sotaro Takeshita

#### PHD CANDIDAT

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## **Education**

University of Mannheim Mannheim, Germany

Ph.D. Student in Natural Language Processing

Sep. 2022 - Present

- Text summarization for scholarly documents.
- Supervisor: Prof. Dr. Simone Paolo Ponzetto

#### The National University of Electro-Communication

Tokyo, Japan

M.S. IN COMPUTER SCIENCE

• Thesis: Multimodal models for commonsense reasoning.

• Supervisor: Prof. Dr. Yasuhiro Minami

## The National University of Electro-Communication Tokyo, Japa

B.S. IN COMPUTER SCIENCE

Tokyo, Japan Apr. 2013 - Mar. 2018

Apr. 2018 - Mar. 2020

- Thesis: Unsupervised text summarization with reinforcement learning.
- Supervisor: Prof. Dr. Yasuhiro Minami

### **Publication** \_\_\_\_

#### **JOURNAL**

#### Cross-lingual extreme summarization of scholarly documents

SOTARO TAKESHITA, TOMMASO GREEN, NIKLAS FRIEDRICH, KAI ECKERT AND SIMONE PAOLO PONZETTO

2023

#### International Journal on Digital Libraries (IJDL)

#### **CONFERENCE**

#### **GenGO: ACL Paper Explorer with Semantic Features**

Bangkok, Thailand

SOTARO TAKESHITA, SIMONE PAOLO PONZETTO, KAI ECKERT

2024

The 62nd Annual Meeting of the Association for Computational Linguistics, System Demonstrations

#### **ROUGE-K: Do Your Summaries Have Keywords?**

Mexico City, Mexico

SOTARO TAKESHITA, SIMONE PAOLO PONZETTO, KAI ECKERT

The 13th Joint Conference on Lexical and Computational Semantics colocated at NAACL 2024, (Best Long Paper)

#### **ACLSum: A New Dataset for Aspect-based Summarization of Scientific Publications**

Mexico City, Mexico

SOTARO TAKESHITA, TOMMASO GREEN, INES REINIG, KAI ECKERT AND SIMONE PAOLO PONZETTO

2024

2024

In Proceedings of the 2024 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL)

## ZusammenQA: Data Augmentation with Specialized Models for Cross-lingual Open-retrieval Question Answering System

Seattle, Washington + Online

CHIA-CHIEN HUNG, TOMMASO GREEN, ROBERT LITSCHKO, TORNIKE TSERETELI, SOTARO TAKESHITA, MARCO BOMBIERI, GORAN

GLAVAŠ, SIMONE PAOLO PONZETTO

2022

Workshop on Multilingual Information Access (MIA) at NAACL

#### X-SCITLDR: Cross-Lingual Extreme Summarization of Scholarly Documents

Cologne, Germany and Online

SOTARO TAKESHITA, TOMMASO GREEN, NIKLAS FRIEDRICH, KAI ECKERT AND SIMONE PAOLO PONZETTO ACM/IEEE Joint Conference on Digital Libraries (JCDL)

2022

#### **UNDER REVIEW**

#### IRSum: One Model to Rule Summarization and Retrieval

SOTARO TAKESHITA, SIMONE PAOLO PONZETTO, KAI ECKERT

2024

#### **Zero-cost Text Embedding Dimension Reduction for Text Retrieval**

Sotaro Takeshita, Yurina Takeshita, Simone Paolo Ponzetto, Kai Eckert

2024

**Experience** VADIS (VAriable Detection, Interlinking and Summarization) • A project funded by German Research Foundation (DFG) • Development of a summarization system for social science research articles. **Build It Inc.** DATA ANALYST & ML ENGINEER Analysis of user behaviours using statistical and machine learning tools • Development of recommendation SaaS The University of Campinas, Faculty of Electrical and Computer Engineering Campinas, Brazil RESEARCH INTERNSHIP • Developed Neural Network-based Computer Vision system for self-driving wheelchairs. · Advisor: Prof. Dr. Eric Rohmer **NTT Media Intelligence Lab** Kanagawa, Japan RESEARCH INTERNSHIP • Development of an NLP system to automatically generate funny stories in Japanese. · Advisor: Dr. Ryuichiro Higashinaka **Recruit Holdings** DATA SCIENCE INTERNSHIP • Development of an automatic scoring system for essays. · Prized with a best intern award

**Projects** 

**Politecnico Nacional** RESEARCH INTERNSHIP

• Analysis on models of automatic face recognition models.

· Advisor: Prof. Dr. Mariko Nakano Miyatake

GenGO: ACL Paper Explorer with Semantic Features, https://gengo.sotaro.io  $\textbf{GenGO-Chat: LLM-powered NLP paper exploration system.}, \\ \texttt{https://gengo-chat.sotaro.io/}$ 

Sección de Estudios de Posgrado e Investigación de ESIME Culhuacan, Instituto

Talks

2024 Scholarly Document Processing: Language Technologies to Help Scientist, Invited Talk DESY, Germany 2023 Overview of Tasks and Challenges in Automatic Text Summarization, Invited Talk NEC, Germany

Germany 2022 - Present

Tokyo, Japan 2015 - 2022

Nov. 2018

Sep. 2018

Tokyo, Japan

Mexico City, Mexico

Feb. 2016 - Apr. 2016

Aug. 2017