

Yiyi Chen

PERSONAL INFORMATION

E-Mail: chen.yiyi@pm.me

GitHub: <https://siebeniris.github.io/>

DBLP: <https://dblp.org/pid/71/1-2.html>

RESEARCH INTERESTS

Machine Learning, Deep Learning, Natural Language Processing, Time Series Analysis

EDUCATION

- Junior Researcher, FIZ Karlsruhe, Karlsruhe Institute of Technology, Karlsruhe, Germany, 11.2020-present
- Master in Computer Linguistics and Computer Science, Grade: 1.67, Ludwig-Maximilians-University Munich, Munich, Germany, 04.2018-10.2020
- Bachelor in Computer Science and Computer Linguistics, Grade: 1.58, Ludwig-Maximilians-University Munich, Munich, Germany, 04.2015-04.2018
- Bachelor in Comparative Philosophy, Wuhan University, Wuhan, China, 09.2008-06.2013

SCHOOL

- German DSH2, Sprachakademie, Aachen, Germany, 11.2013-06.2014
- Gaokao (The Chinese National College Entrance Examination), 06.2008
- YiLing High School, Yichang, Hubei, China, 2005-2008
- Middle School, Yichang, Hubei, China, 2002-2005
- Primary School, Yichang, Hubei, China, 1996-2002

INDUSTRIAL WORK EXPERIENCE

Working Student, NLP Engineer, TrustYou GmbH, Munich, Germany, 08.2018-08.2020

PROJECTS

Junior Researcher, ITFlows H2020, European Project, Web: <https://www.itflows.eu/>,
Description: The purpose of ITFlows is to provide accurate predictions and adequate management solutions of migration flow in the European Union during the phases of reception, relocation, settlement, and integration of migrants. These insights will be provided with the help of EUMigraTool and precise models. Start Date: September 2020.

PROFESSIONAL ACADEMIC SERVICES

Programme Committee Member, PoliticalNLP 2022, Co-located with 13th Edition of Language Resources and Evaluation Conference (LREC), <https://sites.google.com/view/politicalnlp2022/home>

TEACHING EXPERIENCE

- Teaching assistant, Praktikum Information Service Engineering (Master), AIFB, Karlsruhe Institute of Technology, Germany, WS 2021-2022.
- Teaching assistant, Seminar Representation Learning on Knowledge Graphs (Master) AIFB, Karlsruhe Institute of Technology, Germany, WS 2021-2022.
- Teaching assistant, Information Service Engineering, AIFB, Karlsruhe Institute of Technology, Germany, SS 2021.
- Teaching assistant, Advanced Methods in Natural Language Processing: Metaphors (Master), AIFB, Karlsruhe Institute of Technology, Germany, SS 2021.

THESES

Master's Thesis at LMU Munich, TrustYou GmbH, 2020.

Title: Interpretable Change Point Detection in Review Streams.

Supervisor: Johannes Huber (TrustYou), Martin Schmitt (LMU), Dr. Benjamin Roth (LMU)

PUBLICATIONS

1. R. Biswas, **Y. Chen**, H. Paulheim, H. Sack, M. Alam: It's all in the Name: Entity Typing using Multilingual Language Models, In: Proceedings of the ESWC 2022 Posters and Demos Track (accepted).
2. **Y. Chen**, G. A. Gesese, H. Sack, M. Alam: Temporal Evolution of the Migration-related Topics on Social Media, In: Proceedings of the ISWC 2021 Posters and

Demos Track, co-located with the 20th International Semantic Web Conference (ISWC 2021), CEUR Workshop Proceedings, vol. 2980, CEUR-WS.org.

3. M. Alam, R. Biswas, **Y. Chen**, D. Dessi, G. A. Gesese, F. Hoppe, H. Sack: HierClasSArt: Knowledge Aware Hierarchical Classification of Scholarly Articles. In Proc. Of 1st International Workshop on Scientific Knowledge: Representation, Discovery, and Assessment (Sci-K 2021), co-located with The Web Conf 2021, Companion Proceedings of the Web Conference 2021 (pp. 436-440).
4. M. Fromm, M. Berrendorf, E. Faerman, **Y. Chen**, B. Schüss, M. Schubert: XD-STOD: Cross-Domain Superresolution for Tiny Object Detection, International Conference on Data Mining Workshops (ICDMW), 2019, 142-148, DOI: 10.1109/ICDMW.2019.00031.

TECHNICAL REPORTS

Y. Chen, H. Sack, M. Alam: MigrationsKB: A Knowledge Base of Public Attitudes Towards Migrations and their Driving Factors. arXiv pre-prints, arXiv:2108.07593, 2021.

SUPERVISION EXPERIENCE

Seminar Courses

- Fabio Ritzi, Advanced Methods in Natural Language Processing: Metaphors (Master), Paper Title: “How to Avoid Sentences Spelling Boring? Towards a Neural Network Approach to Unsupervised Metapher Generation (Yu and Wan, 2019)”, 2021
- Yi Xu, Representation Learning on Knowledge Graphs (Master), Paper Title: “ReInceptionE: Relation-Aware Inception Network with Joint Local-Global Structural Information for Knowledge Graph Embedding”, 2022
- Florian Krüger, (co-supervisor with Dr. Mehwish Alam), Representation Learning on Knowledge Graphs (Master), Paper Title: “K-Adapter: Infusing Knowledge into Pre-Trained Models with Adapters”, 2022

Project Courses

- Vjola Cili, Mona Stebner, Philipp Kiesling, Praktikum Information Service Engineering (Master)- *Make more out of less in low-resource languages*, Paper Title: “A Quantitative Study on the Influence of Language Similarity in Cross-Lingual Transfer Learning”, 2022
- Caroline Berg, Nabil Aït Saïd, Nico Aßfalg, (co-supervisor with Russa Biswas), Praktikum Information Service Engineering (Master)- *Multilingual Entity Type Prediction*, Paper Title: “Multilingual Entity Type Prediction in DBpedia via Text Analysis”, 2022

OPEN REPOSITORIES

GitHub Repositories

- MigrationsKB: The Knowledge Base of Migration-related annotated Tweets: <https://github.com/migrationsKB/MGKB>
- Multilingual MigrationsKB: <https://github.com/migrationsKB/MRL>
- Temporal Evolution of the Migration-related Topics on Social Media: <https://github.com/migrationsKB/MGKB>

Zenodo Datasets

- MigrationsKB: The Knowledge Base of Migration-related annotated Tweets: <https://zenodo.org/record/5206826>
- Multilingual MigrationsKB: <https://zenodo.org/record/5918508>

TECHNICAL SKILLS

Programming Languages

Python, Java, PyTorch, TensorFlow, Keras, Scikit-Learn, NLTK, JavaScript, HTML, CSS, XML, Jupyter Notebook

Machine Learning/ Deep Learning

TensorFlow, Keras, PyTorch, Gensim, Apache Spark (MLlib), Hadoop, MLflow,

Semantic Web Technology

SPARQL, RDF/S, OWL, RDFLib (python), Protege, Blazegraph, GraphDB, Virtuoso

Query Languages and Databases

MySQL, SPARQL, SQL

Virtual Environments

Docker, Conda

Others

LaTeX

LANGUAGES

Native

Chinese

Fluent

English, German