

# ANDREEA IANA

Mannheim, Germany

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## RESEARCH INTERESTS

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News Recommender Systems, Algorithmic Bias, Multilingual & Few-Shot Recommendation, Cross-lingual Transfer

## EDUCATION

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**Ph.D. Computer Science**, *University of Mannheim* 08/2020 - 07/2025

Topics: Algorithmic Bias & Diversity in News Recommendation, Multilingual & Few-Shot Recommendation

Advisors: [Heiko Paulheim](#) (University of Mannheim), [Goran Glavaš](#) (University of Würzburg)

**M.Sc. Business Informatics (with honors)**, *University of Mannheim* 09/2017 - 07/2020

Focus: Machine Learning, NLP, Deep Learning; Grade: 1.2\*

**B.Sc. Liberal Arts and Sciences (summa cum laude)**, *Maastricht University* 09/2013 - 07/2017

Focus: Computer Science & Business Administration; Grade: 8.6\*\* (top 1% of class)

\* On a scale of 1.0 to 5.0 with 1.0 being the best possible grade; \*\* On a scale of 1.0 to 10.0 with 10.0 being the best possible grade

## SELECTED PUBLICATIONS

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- [1] **Andreea Iana**, Goran Glavaš, Heiko Paulheim. [Train Once, Use Flexibly: A Modular Framework for Multi-Aspect Neural News Recommendation](#), *EMNLP Findings*, 2024.
- [2] **Andreea Iana**, Goran Glavaš, Heiko Paulheim. [MIND Your Language: A Multilingual Dataset for Cross-lingual News Recommendation](#), *SIGIR*, 2024.
- [3] **Andreea Iana**, Goran Glavaš, and Heiko Paulheim. [NewsRecLib: A PyTorch-Lightning Library for Neural News Recommendation](#), *EMNLP: System Demonstrations*, 2023.
- [4] **Andreea Iana**, Goran Glavaš, Heiko Paulheim. [Simplifying Content-Based Neural News Recommendation: On User Modeling and Training Objectives](#), *SIGIR*, 2023.
- [5] Katharina Ludwig, Alexander Grote, **Andreea Iana**, Mehwish Alam, Heiko Paulheim, Harald Sack, Christof Weinhardt, Philipp Müller. [Divided by the Algorithm? The \(Limited\) Effects of Content- and Sentiment-Based News Recommendation on Affective, Ideological, and Perceived Polarization](#), *Social Science Computer Review*, 2023.
- [6] Anna Breit, Laura Waltersdorfer, Fajar J. Ekaputra, Marta Sabou, Andreas Ekelhart, **Andreea Iana**, Heiko Paulheim, Jan Portisch, Artem Revenko, Annette Ten Teije, Frank Van Harmelen. [Combining Machine Learning and Semantic Web: A Systematic Mapping Study](#), *ACM Computing Surveys*, 2023.
- [7] Mehwish Alam, **Andreea Iana**, Alexander Grote, Katharina Ludwig, Philipp Müller, Heiko Paulheim. [Towards Analyzing the Bias of News Recommender Systems Using Sentiment and Stance Detection](#), *BeyondFacts*, 2022.
- [8] **Andreea Iana**, Mehwish Alam, Heiko Paulheim. [A Survey on Knowledge-aware News Recommender Systems](#), *Semantic Web*, 2022.
- [9] **Andreea Iana**, Heiko Paulheim. [GraphConfRec: A Graph Neural Network-Based Conference Recommender System](#), *JCDL*, 2021.

## PROFESSIONAL EXPERIENCE

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**Research Associate**, *University of Mannheim* Mannheim (DE), 08/2020 - present

Research on algorithmic bias in news recommendation; multilingual & few-shot recommendation; cross-lingual transfer in content-based recommendation; lean, robust, reproducible recommender systems

Projects: [ReNewRS](#) (detecting, analyzing, preventing political polarization in news recommender systems)

**Visiting Researcher**, *University of Würzburg* Würzburg (DE), 12/2023 - 02/2024

Multilingual and cross-lingual news recommendation (host: [Goran Glavaš](#), result: [xMIND](#))

**Student Research Assistant**, *University of Mannheim* Mannheim (DE), 11/2018 - 04/2020

Projects: impact of A-box materialization on RDF2vec knowledge graph embeddings (result: [CIKM workshop paper](#)); entity matching in knowledge graphs; implementation of n-triples Cython parser

Data wrangling in Pandas, RDFLib, gensim, SPARQL, Cython

## TEACHING & SUPERVISION

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<b>Tutorials</b>	Data Mining, Data Mining I & II
<b>Bachelor &amp; Master Theses</b>	Supervision of theses on news & scientific research recommendation
<b>Team Projects</b>	News recommendation library & study-advice ChatBot development

## SERVICE & ACTIVITIES

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<b>Program Committee</b>	ARR, ISWC, ESWC, PoliticalNLP@LREC, BeyondFacts@WWW, DL4KG@ISWC
<b>Journal Reviews</b>	Journal of Web Semantics, Information Systems Journal
<b>Open Source</b>	<a href="#">NewsRecLib</a> – news recommendation framework integrating PyTorch(-Lightning) & Hydra

## SKILLS

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<b>Programming</b>	excellent proficiency in Python, Linux CLI; good familiarity with Git, HPC with Slurm
<b>ML Frameworks</b>	advanced proficiency in PyTorch(-Lightning), Hydra, WandB, HuggingFace Transformers
<b>Languages</b>	Romanian (native), English (native-level, C2 level), German (intermediate proficiency, B1 level)