Timo **Spinde**

POSTDOCTORAL RESEARCHER · COMPUTER SCIENCE

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Education

University of Göttingen   *Göttingen, Germany*

PH.D. IN COMPUTER SCIENCE   *2020 - 2024*

- Title: Automated Detection of Media Bias in News Articles
- Research executed at the universities in Konstanz, Wuppertal, NII Tokyo, and Göttingen
- Defended summa cum laude

University of Konstanz   *Konstanz, Germany*

M. SC. "SOCIAL AND ECONOMIC DATA ANALYSIS"   *2016 - 2019*

University of Haifa & Technion Haifa, Israel   *Haifa, Israel*

STUDY ABROAD   *2018 - 2019*

University of Passau   *Passau, Germany*

DOUBLE B.A. MEDIA AND COMMUNICATIONS AND B. SC. INTERNET COMPUTING   *2012 - 2015*

Professional Experience (selected)

Since 2023	**Researcher & Lecturer**,	Georg-August-Universität Göttingen
Since 2021	**Initiator & Coordinator**,	Media Bias Group
Since 2020	**Founder**,	Bodenseeliebe
Since 2019	**Researcher & Lecturer**,	Universität Konstanz
2021 - 2022	**Researcher**,	Bergische Universität Wuppertal
2019 - 2020	**Scientific Assistant**,	Heidelberg Academy of Sciences and Humanities
2017 - 2018	**Founder**,	CitizenData
2016 - 2024	**Web Developer**,	Timo Spinde Media Design & Events
2016	**Data Science Intern**,	Celonis
2015	**Graphic Design Intern**,	Angererdesign
2015 - 2016	**Tutor and Student Assistant**,	Chair of journalism, University of Passau
2014	**Marketing and Printing Intern**,	Rotaform Dialogue-Media
2012 - 2013	**Innovation Management Intern**,	Sixt
2012	**Journalistic intern**,	Rundschau Verlag
2011 - 2013	**Radio Editor/Moderator**,	Newcomerradio-Deutschland

Publications

T. Spinde, E. Richter, M. Wessel, J. Kulshrestha, K. Donnay. "What do Twitter comments tell about news article bias? Assessing the impact of news article bias on its perception on Twitter". In: Online Social Networks and Media, 2023, Volume 37-38, Page 100264. DOI: 10.1016/j.osnem.2023.100264

T. Spinde, J.-D. Krieger, T. Ruas, J. Mitrović, F. Götz-Hahn, A. Aizawa, B. Gipp. "Exploiting transformer-based multitask learning for the detection of media bias in news articles". In: iConference, 2022. DOI: 10.1007/978-3-030-96957-8_20.

T. Spinde, M. Plank, J.-D. Krieger, T. Ruas, B. Gipp, A. Aizawa. "Neural Media Bias Detection Using Distant Supervision With

BABE - Bias Annotations By Experts". In: Findings of the Association for Computational Linguistics: EMNLP 2021, Dominican Republic, 2021. DOI: 10.18653/v1/2021.findings-emnlp.101.

T. Spinde, L. Rudnitckaia, F. Hamborg, B. Gipp. "Identification of Biased Terms in News Articles by Comparison of Outlet-specific Word Embeddings". In: iConference, 2021.

T. Spinde, L. Rudnitckaia, J. Mitrović, F. Hamborg, M. Granitzer, B. Gipp, K. Donnay. "Automated identification of bias inducing words in news articles using linguistic and context-oriented features". In: Information Processing & Management, 2021, 58(3), p. 102505. DOI: 10.1016/j.ipm.2021.102505.

T. Spinde, K. Sinha, N. Meuschke, B. Gipp. "TASSY - A Text Annotation Survey System". In: ACM/IEEE Joint Conference on Digital Libraries (JCDL), 2021. DOI: 10.1109/JCDL52503.2021.00052.

T. Spinde, F. Hamborg, K. Donnay, A. Becerra, B. Gipp. "Enabling News Consumers to View and Understand Biased News Coverage: A Study on the Perception and Visualization of Media Bias". In: ACM/IEEE Joint Conference on Digital Libraries in 2020, pp. 389–392. DOI: 10.1145/3383583.3398619.

T. Spinde, F. Hamborg, B. Gipp. "An Integrated Approach to Detect Media Bias in German News Articles". In: ACM/IEEE Joint Conference on Digital Libraries in 2020, pp. 505–506. DOI: 10.1145/3383583.3398585.

T. Spinde, F. Hamborg, B. Gipp. "Media Bias in German News Articles: A Combined Approach". In: ECML PKDD 2020 Workshops, pp. 581–590. Springer International Publishing. DOI: 10.1007/978-3-030-65965-3_41.

T. Spinde. "An Interdisciplinary Approach for the Automated Detection and Visualization of Media Bias in News Articles". In: IEEE International Conference on Data Mining Workshops (ICDMW), 2021. DOI: 10.1109/ICDMW53433.2021.00144.

T. Spinde, C. Jeggle, M. Haupt, W. Gaissmaier, H. Giese. "How do we raise media bias awareness effectively? Effects of visualizations to communicate bias". In: PLOS ONE. Vol. 17. Issue: 4. Public Library of Science, 2022, pp. 1–14. DOI: 10.1371/journal.pone.0266204.

T. Spinde, C. Kreuter, W. Gaissmaier, F. Hamborg, B. Gipp, H. Giese. "Do You Think It's Biased? How To Ask For The Perception Of Media Bias". In: Proceedings of the ACM/IEEE Joint Conference on Digital Libraries (JCDL). 2021, pp. 61–69. DOI: 10.1109/JCDL52503.2021.00018.

T. Spinde, D. Krieger, M. Plank, B. Gipp. "Towards A Reliable Ground-Truth For Biased Language Detection". In: Proceedings of the ACM/IEEE-CS Joint Conference on Digital Libraries (JCDL). Virtual Event, 2021. DOI: 10.1109/JCDL52503.2021.00053.

T. Spinde, J. -D. Krieger, T. Ruas, J. Mitrović, F. Götz-Hahn, A. Aizawa, B. Gipp. "Exploiting transformer-based multitask learning for the detection of media bias in news articles". In: Proceedings of the iConference 2022. Virtual event, 2022. DOI: 10.1007/978-3-030-96957-8_20.

T. Spinde, M. Plank, J.- D. Krieger, T. Ruas, B. Gipp, A. Aizawa. "Neural Media Bias Detection Using Distant Supervision With BABE - Bias Annotations By Experts". In: Proc. Ann. Meeting Association for Computational Linguistics (ACL). Punta Cana, Dominican Republic: Association for Computational Linguistics, 2021, pp. 1166–1177. DOI: 10.18653/v1/2021.findings-emnlp.101.

T. Spinde, L. Rudnitckaia, S. Kanishka, F. Hamborg, Bela, Gipp, K. Donnay. "MBIC – a media bias annotation dataset including annotator characteristics". In: Proceedings of the iConference 2021. Beijing, China (Virtual Event), 2021. DOI: 10.6084/m9.figshare.17192924.

T. Spinde, L. Rudnitckaia, J. Mitrović, F. Hamborg, M. Granitzer, B. Gipp, K. Donnay. "Automated identification of bias inducing words in news articles using linguistic and context-oriented features". In: Information Processing & Management 58.3 (2021), p. 102505. DOI: 10.1016/j.ipm.2021.102505.

J. Ehrhardt, T. Spinde, A. Vardasbi, F. Hamborg. "Omission of Information: Identifying Political Slant via an Analysis of Co-occurring Entities". In: Information between Data and Knowledge, 2021. Werner Hülsbusch, pp. 80–93.

S. Hinterreiter, T. Spinde, S. Oberdörfer, I. Echizen, M. E. Latoschik. "News Ninja: Gamified Annotation of Linguistic Bias in Online News". In: Proc. ACM Hum.-Comput. Interact., 2024, Volume 8, Number CHI PLAY. DOI: 10.1145/3677092.

S. Hinterreiter, M. Wessel, F. Schliski, I. Echizen, M. E. Latoschik, T. Spinde. "NewsUnfold: Creating a News-Reading Application That Indicates Linguistic Media Bias and Collects Feedback". In: Proceedings of the International AAAI Conference on Web and Social Media (ICWSM'25), 2025, Volume 19, pp. 1–14.

T. Horych, M. Wessel, J. P. Wahle, T. Ruas, J. Waßmuth, A. Greiner-Petter, A. Aizawa, B. Gipp, T. Spinde. "MAGPIE: Multi-Task Analysis of Media-Bias Generalization with Pre-Trained Identification of Expressions". In: Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024). 2024, pp. 10903–10920. DOI: 10.18653/v1/2024.lrec-main.952.

D. Krieger, T. Spinde, T. Ruas, J. Kulshrestha, B. Gipp. "A Domain-adaptive Pre-training Approach for Language Bias Detection in News". In: ACM/IEEE Joint Conference on Digital Libraries (JCDL), 2022. Cologne, Germany. DOI:10.1145/3529372.3530932.

N. Meuschke, A. Jagdale, T. Spinde, J. Mitrović, B. Gipp. "A Benchmark of PDF Information Extraction Tools Using a Multi-task and Multi-domain Evaluation Framework for Academic Documents". In: Proceedings of the 18th International Conference (iConference 2023). LNCS. Cham: Springer Nature Switzerland, 2023, pp. 383–405.

M. Wessel, T. Horych, T. Ruas, A. Aizawa, B. Gipp, T. Spinde. "Introducing MBIB - the first media bias identification benchmark task and dataset collection". In: ACM SIGIR conference on research and development in information retrieval (SIGIR '23), 2023. DOI: 10.1145/3539618.3591882.

Grants

2021	**Doctoral Research Fellowship**, University of Konstanz	*€ 5,000*
2021 - 2024	**Doctoral Research Scholarship**, Hanns-Seidel Foundation	*€ 63,800*
2021	**DAAD IFI Scholarship**, German Academic Exchange Service (DAAD)	*€ 15,000*
2022 - 2023	**DAAD IFI Scholarship**, German Academic Exchange Service (DAAD)	*€ 15,000*
2024	**Exist Scholarship**, German startup funding	*€ 119,500*
2024	**CIRES Visiting Researcher Scholarship**, University of Queensland	*€ 4,000*
2025 - 2027	**DAAD IFI Postdoc Scholarship**, German Academic Exchange Service (DAAD)	*€ 200,000*

Invited Talks (selected)

EMNLP 2022. *Title: Neural Media Bias Detection Using Distant Supervision With BABE - Bias Annotations By Experts*. Annual Meeting of the Association for Computational Linguistics (EMNLP), Punta Cana, Dominican Republic.

iConference 2021. *Title: MBIC - A Media Bias Annotation Dataset Including Annotator Characteristics*. iConference, Beijing, China (Virtual Event).

JCDL 2021. *Title: An Integrated Approach to Detect Media Bias in German News Articles*. ACM/IEEE Joint Conference on Digital Libraries (JCDL), Virtual Event.

JCDL 2021. *Title: Do You Think It's Biased? How To Ask For The Perception Of Media Bias*. ACM/IEEE Joint Conference on Digital Libraries (JCDL), Virtual Event.

JCDL 2021. *Title: Towards a Reliable Ground-Truth for Biased Language Detection*. ACM/IEEE Joint Conference on Digital Libraries (JCDL), Virtual Event.

JCDL 2021. *Title: TASSY—A Text Annotation Survey System*. ACM/IEEE Joint Conference on Digital Libraries (JCDL), Virtual Event.

JCDL 2022. *Title: A Domain-adaptive Pre-training Approach for Language Bias Detection in News*. ACM/IEEE Joint Conference on Digital Libraries (JCDL), Cologne, Germany.

ICDMW 2021. *Title: An Interdisciplinary Approach for the Automated Detection and Visualization of Media Bias in News Articles*. IEEE International Conference on Data Mining Workshops (ICDMW), Virtual Event.

JCDL 2020. *Title: Enabling News Consumers to View and Understand Biased News Coverage: A Study on the Perception and Visualization of Media Bias*. ACM/IEEE Joint Conference on Digital Libraries (JCDL), Virtual Event.

INRA Workshop 2021. *Title: Identification of Biased Terms in News Articles by Comparison of Outlet-specific Word Embeddings*. Workshop at Institut National de Recherche en Informatique et en Automatique (INRA), City, State.

University of Göttingen 2023. *Title: Automated Detection of Media Bias*. Python Lecture, Göttingen, Germany.

Spiegel 2023. *Title: Automated Detection of Media Bias*. Spiegel, Hamburg, Germany.

Südkurier 2023. *Title: Automated Detection of Media Bias*. Südkurier, Konstanz, Germany.

NII Tokyo 2023. *Title: Automated Detection of Media Bias*. National Institute of Informatics (NII), Tokyo, Japan.

ICWSM 2023. *Title: Automated Detection of Media Bias*. International Conference on Web and Social Media (ICWSM), Limassol, Cyprus.

Teaching Experience

Since 2019	**Applied Web Design (every summer and winter semester)**, Seminar	*Passau*
Since 2020	**Applied Web Design (every summer and winter term)**, Seminar	*Konstanz*
2023 - 2025	**Programming for Data Scientists in Python (every summer and winter term)**, Lecture	*Göttingen*
2023	**Deep Learning for Natural Language Processing (summer term)**, Lecture	*Göttingen*

Mentoring

Since 2022	**Smi Hinterreiter**, Doctoral Researcher, University of Würzburg
Since 2023	**Tomáš Horych**, Doctoral Researcher, University of Göttingen
Since 2023	**Martin Wessel**, Doctoral Researcher, TU Munich
Since 2023	**Christoph Mandl**, Doctoral Researcher, University of Göttingen
Since 2021	**Supervised 31 master and bachelor thesis projects**, Göttingen, Konstanz, Tokyo, Dortmund, Leuven, Amsterdam, Passau, Tilburg, Leipzig, Munich

Outreach & Professional Development

SERVICE AND OUTREACH

Since 2023	**University Association for Information Science** , Board member
Since 2023	**Hanns-Seidel scholarship foundation**, Committee member for new scholarship holders

PEER REVIEW

EMNLP
ACL ARR
Polish Political Science Review

PROFESSIONAL MEMBERSHIPS

ACM
Hanns-Seidel foundation alumni club

OTHER

Guitarist in bands (since 2005)
Leader of an acting group (since 2020)
Student's convent member (2013 - 2014)
Scout (1999 - 2011)