

Dirk Hovy

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Biography

Dirk Hovy is an Associate Professor at Università Bocconi where he works on Natural Language Processing and Computational Social Science.

Previously, he was faculty and postdoc in Copenhagen, he is also the scientific director of BIDSAs Data and Marketing Insights (DMI) research unit, and head of the MilaNLP lab. He organized a conference (EMNLP 2017) and various workshops on abusive language, ethics in NLP, and computational social science. work in natural language processing and computational social science, and he is interested in modeling what language can tell us about society, and what computers can tell us about language. He also works on ethics and fairness in NLP and AI. Technique-wise, he is interested in transfer learning, multitask learning, reinforcement learning and adversarial learning. He received a 2020 ERC Starting Grant to explore the effect of sociodemographic variables on NLP models, and to integrate the two.

He got a PhD in Natural Language Processing, from USC, and a Master's in sociolinguistics in Germany.

ARTICLES IN SCHOLARLY JOURNALS

HOVY D., MELUMAD S., INMAN J. J.

Wordify: A Tool for Discovering and Differentiating Consumer Vocabularies

Journal of Consumer Research, 2021, vol.48, no. 3, pp.394-414

PURSCHKE C., HOVY D.

Lörres, Möppes, and the Swiss. (Re)Discovering regional patterns in anonymous social media data

Journal of Linguistic Geography, 2019, vol.7, no. 2, pp.113-134

PAUN S., CARPENTER B., CHAMBERLAIN J., HOVY D., KRUSCHWITZ U., POESIO M.

Comparing Bayesian Models of Annotation

Transactions of the Association for Computational Linguistics, 2018, vol.6, pp.571-585

RESEARCH MONOGRAPHS

HOVY D.

Text Analysis in Python for Social Scientists: Prediction and Classification

Cambridge University Press, , 2022

HOVY D.

Text Analysis in Python for Social Scientists: Discovery and Exploration

Cambridge University Press, , 2020

CONTRIBUTION TO CHAPTERS, BOOKS OR RESEARCH MONOGRAPHS

BIANCHI F., FORNACIARI T., HOVY D., NOZZA D.

Gender and Age Bias in Commercial Machine Translation in *Towards Responsible Machine Translation*

Helena Moniz, Carla Parra Escartín (Eds), Springer International Publishing, pp.159-184, 2023

HOVY D., RAHIMI A., BALDWIN T., BROOKE J.

Visualizing Regional Language Variation Across Europe on Twitter in *Handbook of the Changing World Language Map*

Stanley D Brunn, Roland Kehrein (Eds), Springer International Publishing, pp.1-24, 2019

HOVY D., QUIST P.

Computerlingvistik. Metoder til visualisering af regional variation i sociale medier in *Sociale Medier Og Sprog*

Mortensen Kristine, Stæhr Andreas (Eds), Samfunds Litteratur, chap. 5, pp.121-144, 2018

ARTICLES UPON REQUEST/INVITATION

HOVY D., PRABHUMOYE S.

Five sources of bias in natural language processing

2021, Language and Linguistics Compass

OTHER

HOVY D.

IA & società

2024, Eco, Italy

HOVY D., CIRRINCIONE A.

AI e sport business: le regole del gioco sono cambiate

2023, Capital, Italy

HOVY D., CIRRINCIONE A.

La manifattura è diventata intelligente

2023, Capital, Italy

PROCEEDINGS/PRESENTATIONS

CERCAS CURRY A., ATTANASIO G., NOZZA D., HOVY D.

MilaNLP at SemEval-2023 Task 10: Ensembling Domain-Adapted and Regularized Pretrained Language Models for Robust Sexism Detection

Proceedings of the 17th International Workshop on Semantic Evaluation (SemEval-2023), July 13-14 2023, Toronto, Canada

ORLIKOWSKI M., RÖTTGER P., CIMIANO P., HOVY D.

The ecological fallacy in annotation: modeling human label variation goes beyond sociodemographics

Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics, July 9-14 2023, Toronto, Canada

LAUSCHER A., NOZZA D., CROWLEY A., MILTERSEN E., HOVY D.

What about em? How commercial Machine Translation fails to handle (neo-)pronouns

Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics, July 9-14 2023, Toronto, Canada

THEIL K., HOVY D., STUCKENSCHMIDT H.

Top-down influence? Predicting CEO personality and risk impact from speech transcripts

Proceedings of the Seventeenth International AAAI Conference on Web and Social Media, June 5-8 2023, Limassol, Cyprus

HUNG C., LAUSCHER A., HOVY D., PONZETTO S. P., GLAVAŠ G.

Can demographic factors improve text classification? Revisiting demographic adaptation in the age of transformers

Findings of the Association for Computational Linguistics: EACL 2023, May 2-6 2023, Dubrovnik, Croatia

HADA R., EBRAHIMI FARD A., SHUGARS S., BIANCHI F., ROSSINI P., HOVY D., TROMBLE R., TINTAREV N.

Beyond Digital "Echo Chambers": The Role of Viewpoint Diversity in Political Discussion

WSDM '23: The Sixteenth ACM International Conference on Web Search and Data Mining, 27 February - 3 March 2023, Singapore

BIANCHI F., HILLS S., ROSSINI P., HOVY D., TROMBLE R., TINTAREV N.

"It's not just hate": a multi-dimensional perspective on detecting harmful speech online

The 2022 Conference on Empirical Methods in Natural Language Processing, December 7-11, 2022, Abu Dhabi, United Arab Emirates

HESSENTHALER M., STRUBELL E., HOVY D., LAUSCHER A.

Bridging fairness and environmental sustainability in natural language processing

The 2022 Conference on Empirical Methods in Natural Language Processing, December 7-11, 2022, Abu Dhabi, United Arab Emirates

BIANCHI F., CUTRONA V., HOVY D.

Twitter-demographer: a flow-based tool to enrich Twitter data

The 2022 Conference on Empirical Methods in Natural Language Processing, December 7-11, 2022, Abu Dhabi, United Arab Emirates

ATTANASIO G., NOZZA D., PASTOR E., HOVY D.

Benchmarking Post-Hoc Interpretability Approaches for Transformer-based Misogyny Detection

Proceedings of NLP Power! The First Workshop on Efficient Benchmarking in NLP, May 22-27, 2022, Dublin, Ireland

ATTANASIO G., NOZZA D., HOVY D., BARALIS E.

Entropy-based Attention Regularization Frees Unintended Bias Mitigation from Lists

Findings of the Association for Computational Linguistics: ACL 2022, May 22-27, 2022, Dublin, Ireland

FORNACIARI T., UMA A., POESIO M., HOVY D.

Hard and Soft Evaluation of NLP models with BOOtSTrap SAMpling - BooStSa

Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics: System Demonstrations, May 22-27, 2022, Dublin, Ireland

BIANCHI F., NOZZA D., HOVY D.

Language Invariant Properties in Natural Language Processing

Proceedings of NLP Power! The First Workshop on Efficient Benchmarking in NLP, May 22-27, 2022, Dublin, Ireland

NOZZA D., BIANCHI F., HOVY D.

Pipelines for Social Bias Testing of Large Language Models

Proceedings of BigScience Episode #5 -- Workshop on Challenges & Perspectives in Creating Large Language Models, May 22-27, 2022, Dublin, Ireland

BIANCHI F., NOZZA D., HOVY D.

XLM-EMO: Multilingual Emotion Prediction in Social Media Text

Proceedings of the 12th Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis, May 22-27, 2022, Dublin, Ireland

RESEARCH NOTES OR SHORT ARTICLES IN JOURNALS

BIANCHI F., CERCAS CURRY A., HOVY D.

Viewpoint: Artificial Intelligence Accidents Waiting to Happen?

2023, Journal of Artificial Intelligence Research (JAIR)

Grants & Honors

Teaching Award - PhD School - Università Commerciale Luigi Bocconi , 2022

ERC Starting Grant INTEGRATOR, PI (1.5M EUR) , 2020
