



July 1983 
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Ivan Habernal, Ph.D.

Education

- Ph.D. in Computer Science**, University of West Bohemia, Czech Republic
 Dissertation: "Semantic Web Search Using Natural Language" 09/2012
- MSc. in Computer Science**, University of West Bohemia, Czech Republic
 Master Thesis: "Lexical Class Semantic Analysis" 06/2007

Professional Appointments

- Independent Research Group Leader** since 01/2021
 Department of Computer Science, Technische Universität Darmstadt, Germany
- Senior Researcher** 02/2020 — 12/2020
 Department of Computer Science, Technische Universität Darmstadt, Germany
- Lead Data Scientist** 09/2019 — 01/2020
 bd4travel GmbH, Frankfurt am Main, Germany
- Data Scientist** 07/2018 — 08/2019
 Boehringer Ingelheim GmbH, Ingelheim am Rhein, Germany
- Post-Doctoral Researcher** 01/2015 — 06/2018
 Ubiquitous Knowledge Processing Lab, Technische Universität Darmstadt, Germany
- Post-Doctoral Researcher** 09/2013 — 12/2014
 Deutsches Institut für Internationale Pädagogische Forschung, Frankfurt, Germany
- Research Associate** 10/2008 — 08/2013
 University of West Bohemia, Czech Republic

Grants

RMU: Legal argument mining: Sind die Leitentscheidungen des Europäischen Gerichtshofs für Menschenrechte anders, vertiefter und besser begründet als seine weniger wichtigen Entscheidungen? 2020

Funding agency: RMU-Initiativfonds Forschung/Förderlinie 2

Principal investigator (total 4 PIs)

Total acquired funding: \approx 20 000 €

DFG GU 798/20-1 ArguAna: Argumentation Analysis for the Web 2016

Funding agency: Deutsche Forschungsgemeinschaft

Funding period: 1. 2. 2017 — 31. 1. 2020

Proposal writing, main research staff

Total acquired funding: \approx 450 000 €

AWS in Education Grants Program 2015

Funding agency: Amazon

Total acquired funding: \$10,000

Invited Talks

AI and Algorithms – International Summer School on “AI and Criminal Justice”

Luiss School of Law, Rome, Italy

07/2021

Privacy-Preserving Text Classification for Graph Datasets

Royal Holloway, University of London

03/2021

Computational Argumentation: A Journey Beyond Semantics, Logic, Opinions, and Easy Tasks

Computational Semantics beyond Events and Roles at NAACL 2018, New Orleans

06/2018

Did you also spend the last weekend playing your NLP game?

Games4NLP workshop at LREC 2018, Miyazaki, Japan

05/2018

Recent Trends in Computational Argumentation

Zayed University, Dubai, UAE

10/2017

Existing Resources for Debating Technologies

Dagstuhl Seminar on Debating Technologies, Wadern, Germany

12/2015

Machine learning for argumentation mining

2nd Workshop on Argumentation Mining, NAACL 2015, Denver, USA

06/2015

Conferences Organized

Area Chair 2021

EMNLP 2021: The 2021 Conference on Empirical Methods in Natural Language Processing; Area: Sentiment analysis and argument mining

Area Chair 2021

SEM 2021: The 10th Joint Conference on Lexical and Computational Semantics; Area: Semantics for NLP

Applications

Tutorial Chair	2020 — 2021
EACL 2021: European Chapter of the Association for Computational Linguistics; jointly with NAACL 2021, ACL-JCNLP 2021, and EMNLP 2021	
Co-organizer (w/ Program Chairs)	2018 — 2019
ACL 2019: 57th Annual Meeting of the Association for Computational Linguistics, Sydney, Australia; ACL is the most significant venue in computational linguistics	
Main organizer	2017 — 2018
SemEval 2018: The Argument Reasoning Comprehension Task, NAACL 2018, New Orleans, USA	
Program Chair	2016 — 2017
4th Workshop on Argument Mining, EMNLP 2017, Copenhagen, Denmark	
Guest speaker organization: Christian Kock (Professor of Rhetoric at the Department of Media, Cognition and Communication at the University of Copenhagen)	
Area Co-chair	2016
Sentiment Analysis & Computational Argumentation, COLING 2016, Osaka, Japan	

Teaching Experience

Mentoring young scholars

Sarah Lettmann (Master Thesis)	2021
Lena Held (Master Thesis)	2021
Daniel Faber (Master Thesis)	2021
Timour Igamberdiev (Doctoral Student)	2020 —
Fabian Kaiser (Research Scholarship)	2020
Christopher Klamm (Master Thesis), currently Ph.D. candidate	2017
Patrick Pauli (Master Thesis)	2017
Christian Pollak (Master Thesis)	2016
Raffael Hannemann (Master Thesis)	2015
Omnia Zayed (Internship), Ph.D. in 2021	2015
Dicle Öztürk (Internship)	2015
Anil Narassiguin (Internship), Ph.D. in 2018	2014
Michal Patočka (Master Thesis)	2013
Tomáš Ptáček (Master Thesis, with awards), Ph.D. in 2017	2012

Courses

<i>Deep Learning for Natural Language Processing</i>	2021
Lecturer; 6 CP course; 250+ students	
https://github.com/dl4nlp-tuda2021/deep-learning-for-nlp-lectures	
<i>Text Analytics for Social Good</i>	
Seminar, Technische Universität Darmstadt	2020
<i>Theoretical Informatics</i>	
University of West Bohemia	2007 — 2009

Guest lectures

<i>Guest lectures: Foundations of Language Technology</i> TU Darmstadt	2020 — 2021
<i>Guest lecture: Deep Learning for Computational Argumentation</i> Deep Learning for NLP, TU Darmstadt	07/2017
<i>Guest lecture: Argumentation Mining</i> Natural Language Processing and eLearning, TU Darmstadt	05/2015

Service to Profession

Programm committee

ACL Rolling Review 2021, ACL 2021, SIGDIAL 2021, NAACL 2021, EACL 2021, AACL-IJCNLP 2020, EMNLP 2020, FEVER 2020, SIGDIAL 2020, *SEM 2020, SemEval 2020, COLING 2020, ACL 2020, 5th Workshop on Argument Mining at COLING 2020, NAACL 2019, ACL 2018, IJCAI 2018, Games4NLP at LREC 2018, AIST 2017, LREC 2017, EMNLP 2016, COLING 2016, Games4NLP at EACL 2017, 3rd Workshop on Argument Mining at ACL 2016, LREC 2016, Extra-Propositional Aspects of Meaning in Computational Linguistics at NAACL 2015, 2nd Workshop on Argumentation Mining at NAACL 2015, TSD 2013, TSD 2011

Journal reviews

Computational Linguistics, Transactions of the ACL (TACL), Argument & Computation, Artificial Intelligence (Elsevier), ACM Transactions on Internet Technology, Language Resources and Evaluation (Springer), Information Sciences (Elsevier), Expert Systems with Applications (Elsevier), International Journal of Artificial Intelligence in Education (Springer), Journal for Language Technology and Computational Linguistics (GSCL), Dialogue & Discourse

Grant proposal reviews

National Science Centre Poland, Art and Humanities Research Council UK, Natural Sciences and Engineering Research Council of Canada

University Service

<i>Faculty senator</i> Faculty of Applied Sciences	elected 2005 — 2007, re-elected 2007 — 2009
<i>University senator</i> University of West Bohemia	elected 2005 — 2007, re-elected 2007 — 2009

Media Coverage

<i>The New Scientist</i> Computers that can argue will be satnav for the moral maze	09/2016
<i>Zeit Wissen</i> Richtig Streiten – Die Kunst, zu argumentieren und sich zu behaupten	12/2016

Schweizer Radio und Fernsehen

Zukunft ohne Kopfzerbrechen? Wie Maschinen bald für uns denken

01/2017

hoch3-FORSCHEN

For powerful arguments

11/2016

Languages

English, German, Czech

Publications

Google Scholar profile: <https://scholar.google.com/citations?user=ERp8VTsAAAAJ>

Journals

- [HG17] **Habernal, Ivan** and Iryna Gurevych. "Argumentation Mining in User-Generated Web Discourse". In: *Computational Linguistics* 43.1 (2017), pp. 125–179.
- [HK13] **Habernal, Ivan** and Miloslav Konopík. "SWSNL: Semantic Web Search Using Natural Language". In: *Expert Systems with Applications* 40.9 (2013), pp. 3649–3664.
- [HPS14] **Habernal, Ivan**, Tomáš Ptáček, and Josef Steinberger. "Supervised sentiment analysis in Czech social media". In: *Information Processing & Management* 50.5 (2014), pp. 693–707.

Book chapters

- [HDG16] **Habernal, Ivan**, Johannes Daxenberger, and Iryna Gurevych. "Mass Collaboration on the Web: Textual Content Analysis by Means of Natural Language Processing". In: *Mass Collaboration and Education*. Ed. by Ulrike Cress, Johannes Moskaliuk, and Heisawn Jeong. Vol. 16. Computer-Supported Collaborative Learning Series. Springer International Publishing, 2016, pp. 367–390. ISBN: 978-3-319-13535-9.
- [HKR12] **Habernal, Ivan**, Miloslav Konopík, and Ondřej Rohlík. "Question Answering". In: *Next Generation Search Engines. Advanced models for information retrieval*. Ed. by Christophe Jouis, Ismail Biskri, Jean-Gabriel Ganascia, and Magali Roux. IGI Global, 2012. Chap. 14, pp. 304–343.

Peer-reviewed conference papers

2020

- [GHG20] Max Glockner, **Habernal, Ivan**, and Iryna Gurevych. "Why do you think that? Exploring faithful sentence-level rationales without supervision". In: *Findings of the Association for Computational Linguistics: EMNLP 2020*. Online: Association for Computational Linguistics, 2020, pp. 1080–1095.

2018

- [Hab+18a] **Habernal, Ivan**, Henning Wachsmuth, Iryna Gurevych, and Benno Stein. "Before Name-Calling: Dynamics and Triggers of Ad Hominem Fallacies in Web Argumentation". In: *Proceedings of the 2018 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Volume 1 (Long Papers)*. New Orleans, Louisiana: Association for Computational Linguistics, 2018, pp. 386–396.
- [Hab+18b] **Habernal, Ivan**, Henning Wachsmuth, Iryna Gurevych, and Benno Stein. "SemEval-2018 Task 12: The Argument Reasoning Comprehension Task". In: *Proceedings of The 12th International Workshop on Semantic Evaluation*. New Orleans, Louisiana: Association for Computational Linguistics, 2018, pp. 763–772.
- [Hab+18c] **Habernal, Ivan**, Henning Wachsmuth, Iryna Gurevych, and Benno Stein. "The Argument Reasoning Comprehension Task: Identification and Reconstruction of Implicit Warrants". In: *Proceedings of the 2018 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Volume 1 (Long Papers)*. New Orleans, Louisiana: Association for Computational Linguistics, 2018, pp. 1930–1940.

[Hab18] **Habernal, Ivan**. “Computational Argumentation: A Journey Beyond Semantics, Logic, Opinions, and Easy Tasks”. In: *Proceedings of the Workshop on Computational Semantics beyond Events and Roles*. New Orleans, USA: Association for Computational Linguistics, 2018, p. 38.

[HPG18] **Habernal, Ivan**, Patrick Pauli, and Iryna Gurevych. “Adapting Serious Game for Fallacious Argumentation to German: Pitfalls, Insights, and Best Practices”. In: *Proceedings of the Eleventh International Conference on Language Resources and Evaluation (LREC 2018)*. Miyazaki, Japan: European Language Resources Association (ELRA), 2018, pp. 3329–3335.

2017

[Dax+17] Johannes Daxenberger, Steffen Eger, **Habernal, Ivan**, Christian Stab, and Iryna Gurevych. “What is the Essence of a Claim? Cross-Domain Claim Identification”. In: *Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Copenhagen, Denmark, 2017, pp. 2045–2056.

[Hab+17] **Habernal, Ivan**, Raffael Hannemann, Christian Pollak, Christopher Klamm, Patrick Pauli, and Iryna Gurevych. “Argotario: Computational Argumentation Meets Serious Games”. In: *Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing: System Demonstrations*. Copenhagen, Denmark: Association for Computational Linguistics, 2017, pp. 7–12.

[Wac+17] Henning Wachsmuth, Nona Naderi, **Habernal, Ivan**, Yufang Hou, Graeme Hirst, Iryna Gurevych, and Benno Stein. “Argumentation Quality Assessment: Theory vs. Practice”. In: *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers)*. Vancouver, Canada: Association for Computational Linguistics, 2017, pp. 250–255.

2016

[Hab+16] **Habernal, Ivan**, Maria Sukhareva, Fiana Raiber, Anna Shtok, Oren Kurland, Hadar Ronen, Judit Bar-Ilan, and Iryna Gurevych. “New Collection Announcement: Focused Retrieval Over the Web”. In: *Proceedings of the 39th International ACM SIGIR Conference on Research and Development in Information Retrieval*. Pisa, Italy: ACM, 2016, pp. 701–704.

[HG16a] **Habernal, Ivan** and Iryna Gurevych. “What makes a convincing argument? Empirical analysis and detecting attributes of convincingness in Web argumentation”. In: *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing*. Austin, Texas: Association for Computational Linguistics, 2016, pp. 1214–1223.

[HG16b] **Habernal, Ivan** and Iryna Gurevych. “Which argument is more convincing? Analyzing and predicting convincingness of Web arguments using bidirectional LSTM”. In: *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*. Berlin, Germany: Association for Computational Linguistics, 2016, pp. 1589–1599.

[HZG16] **Habernal, Ivan**, Omnia Zayed, and Iryna Gurevych. “C4Corpus: Multilingual Web-size corpus with free license”. In: *Proceedings of the 10th International Conference on Language Resources and Evaluation (LREC 2016)*. Portoroz, Slovenia: European Language Resources Association (ELRA), 2016, pp. 914–922.

[Suk+16] Maria Sukhareva, Judith Eckle-Kohler, **Habernal, Ivan**, and Iryna Gurevych. “Crowdsourcing a large dataset of domain-specific context-sensitive semantic verb relations”. In: *Proceedings of the 10th International Conference on Language Resources and Evaluation (LREC 2016)*. Portoroz, Slovenia: European Language Resources Association (ELRA), 2016, pp. 2131–2137.

2015

- [HG15] **Habernal, Ivan** and Iryna Gurevych. "Exploiting Debate Portals for Semi-Supervised Argumentation Mining in User-Generated Web Discourse". In: *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing*. Lisbon, Portugal: Association for Computational Linguistics, 2015, pp. 2127–2137.

2014

- [HEG14] **Habernal, Ivan**, Judith Eckle-Kohler, and Iryna Gurevych. "Argumentation Mining on the Web from Information Seeking Perspective". In: *Proceedings of the Workshop on Frontiers and Connections between Argumentation Theory and Natural Language Processing*. Ed. by Elena Cabrio, Serena Villata, and Adam Wyner. Bertinoro, Italy: CEUR-WS, 2014, pp. 26–39.
- [PHH14] Tomáš Ptáček, **Habernal, Ivan**, and Jun Hong. "Sarcasm Detection on Czech and English Twitter". In: *Proceedings of COLING 2014, the 25th International Conference on Computational Linguistics: Technical Papers*. Dublin, Ireland: Dublin City University and Association for Computational Linguistics, 2014, pp. 213–223.

2013

- [BH13] Tomáš Brychcín and **Habernal, Ivan**. "Unsupervised Improving of Sentiment Analysis Using Global Target Context". In: *Proceedings of the International Conference Recent Advances in Natural Language Processing RANLP 2013*. Hissar, Bulgaria, 2013, pp. 122–128.
- [HB13] **Habernal, Ivan** and Tomáš Brychcín. "Semantic Spaces for Sentiment Analysis". In: *Text, Speech and Dialogue*. Vol. 8082. Lecture Notes in Computer Science. Berlin Heidelberg: Springer, 2013, pp. 482–489.
- [HPS13] **Habernal, Ivan**, Tomáš Ptáček, and Josef Steinberger. "Sentiment Analysis in Czech Social Media Using Supervised Machine Learning". In: *Proceedings of the 4th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis*. Atlanta, Georgia: Association for Computational Linguistics, 2013, pp. 65–74.

2012 and earlier

- [HK07] **Habernal, Ivan** and Miloslav Konopík. "JAAE: The Java Abstract Annotation Editor". In: *8th Annual Conference of the International Speech Communication Association (INTERSPEECH 2007)*. Antwerp, Belgium, 2007, pp. 1298–1301.
- [HK08] **Habernal, Ivan** and Miloslav Konopík. "Active Tags for Semantic Analysis". In: *Proceedings of the 11th International Conference on Text, Speech and Dialogue*. Brno, Czech Republic: Springer, 2008, pp. 69–76. ISBN: 978-3-540-87391-4.
- [HK09] **Habernal, Ivan** and Miloslav Konopík. "Semantic Annotation for the LingvoSemantics Project". In: *Proceedings of the 12th International Conference on Text, Speech and Dialogue*. Plzen, Czech Republic: Springer, 2009, pp. 299–306. ISBN: 978-3-642-04208-9.
- [HK10a] **Habernal, Ivan** and Miloslav Konopík. "Hybrid Semantic Analysis System – ATIS Data Evaluation". In: *Proceedings of the 6th International Conference on Advanced Data Mining and Applications*. Chongqing, China: Springer, 2010, pp. 376–386. ISBN: 978-3-642-17313-4.
- [HK10b] **Habernal, Ivan** and Miloslav Konopík. "On the way towards standardized semantic corpora for development of semantic analysis systems". In: *SEMAPRO 2010: The Fourth International Conference on Advances in Semantic Processing*. Florence, Italy: IARIA, 2010, pp. 96–99. ISBN: 978-1-61208-104-5.

- [KH09] Miloslav Konopík and **Habernal, Ivan**. “Hybrid Semantic Analysis”. In: *Proceedings of the 12th International Conference on Text, Speech and Dialogue*. Plzen, Czech Republic: Springer, 2009, pp. 307–314. ISBN: 978-3-642-04208-9.