

# Khalid Al-Khatib

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## Education

### Bauhaus-Universität Weimar

Weimar, Germany

PHD IN COMPUTER SCIENCE

2014 - 2019

- Dissertation: "Computational Analysis of Argumentation Strategies".
- Advisor: Prof. Dr. Benno Stein.

### Jordan University of Science and Technology (JUST)

Irbid, Jordan

MS. IN COMPUTER SCIENCE

2007 - 2010

- GPA: 87.1% (Very Good). Rank: top 5%.

### Masaryk University

Brno, Czech Republic

VISITING GRADUATE STUDENT, COMPUTER SCIENCE

2008 - 2009

- Graduate level courses in Computer Science.

### Al Balqa Applied University

Irbid, Jordan

BSC. IN COMPUTER SCIENCE

2003 - 2007

- GPA: 3.28/4.00 (Very Good). Rank: top 5%.

## Research Experience

### The Web Technology and Information Systems Network (Webis.de)

Weimar, Germany

RESEARCH ASSISTANT

2015 - Present

- ArguAna: This project targets the specific challenges of mining arguments and their relations from natural language text on the web. Algorithms are developed that (1) robustly apply to various forms of web argumentation, (2) efficiently leverage the scale of the web, and (3) complement argument mining with an argumentation analysis to effectively assess important quality dimensions.  
Advisor: Prof. Dr. Benno Stein. Prof. Dr. Matthias Hagen
- Argumentation Strategies: This research project is centered around the strategies that authors of monological argumentative texts, such as news editorials and scientific articles, apply to persuade their readers. It seeks to (1) establish computational models of such argumentation strategies, (2) analyze what strategies are common and effective within and across argumentative text genres, and (3) synthesize texts with effective strategies for given sets of arguments.  
Advisor: Prof. Dr. Benno Stein. Jun.-Prof. Dr. Henning Wachsmuth.

### IBM Research, Ireland Research Lab

Dublin, Ireland

RESEARCH INTERN

Nov. 2018 - April 2019

- Counter-argument Generation: This project concerns developing new technologies for tackling the following task: given a target argument, we aim to recommend its counterargument(s) from a set of mined arguments related to the same topic.  
Advisor: Dr. Lea Deleris. Dr. Yufang Hou

### Institute for Natural Language Processing, University of Stuttgart

Stuttgart, Germany

RESEARCH ASSISTANT

2011 - 2013

- Sentiment Topic Analysis: this project studies some areas in sentiment analysis that haven't been studied extensively before like perspectives' classification, bias detection, and the relation between social networks and their users with the public opinion of different sub-communities.  
Advisor: Prof. Dr. Hinrich Schutze.
- eldentity: this project studies multiple collective identities in international debates about war and peace since the end of the Cold War. Many language technology tools and methods are used to analyze multilingual text concepts in the social sciences.  
Advisor: Prof. Dr. Cathleen Kantner.

## Teaching Experience

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### Bauhaus-Universität Weimar

Germany

#### ADVISOR

2014 - 2016

- Advanced Topics in Information Retrieval and Natural Language Processing. (Seminar, 2015, 2016)
- The Argument Search Engine (project, summer 2017).
- Automatic Detection of Evidence in Natural Language Text (project, summer 2016)
- Statistical Classification of Argumentative Essays (project, winter 2015)
- This is Offensive Language (project, summer 2015)

### Jordan University of Science and Technology

Jordan

#### TEACHER ASSISTANT

2007 - 2008

- Java, C++, Introduction to Databases.

## Student Supervision

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### I have supervised the following students:

Bauhaus-Universität Weimar,  
Germany

- Student assistants: Jonas Kohler, Kevin Lang, Patrick Saad, Jakob Herpel, Roxanne El Baff, Yamen Ajjour, Hamza Yunis.
- Master thesis: Viorel Morari, Nikolay Kolyada.

## Honors & Awards

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2016 - 2017 **IBM Ph.D. Fellowship Award**, IBM

Dublin, Ireland.

2011 - 2012 **SFB 732 Research Grant**, University of Stuttgart

Stuttgart, Germany

2008 - 2009 **Erasmus Mundus Action2 scholarship**, Masaryk University

Brno, Czech

Republic

2009 - 2010 **Scholarship**, Jordan University of Science and Technology

Irbid, Jordan

## Reviewing

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- ACL 2019, NAACL 2019, AAAI 2019, ACL 2018, COLING 2018, ACL 2017, EMNLP 2017, EACL 2016, NAACL 2016, ACL 2016, EMNLP 2015.

## Training & Workshops

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2017 **Lisbon Machine Learning Summer School (LxMLS)**, Instituto Superior Técnico (IST)

Lisbon, Portugal

2015 **Debating Technologies**, Schloss Dagstuhl Seminar – Leibniz Center for Informatics

Germany

2013 **DeepQA, IBM Watson Tutorial**, TU Darmstadt

Germany

2013 **Machine Translation Marathon**, Charles University

Czech Republic

2012 **Anaphora and Coreference Resolution Workshop**, University of Stuttgart

Germany

## Skills

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**Programming** Java, Python, working in UNIX/LINUX and Windows environments.

**NLP Tools** scikit-learn, pandas, NumPy, Stanford NLP, Weka, Lucene ...

**Languages** Arabic, English, German.

## Publications

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- **Khalid Al-Khatib**, Henning Wachsmuth, Kevin Lang, Jakob Herpel, Matthias Hagen and Benno Stein. Modeling Deliberative Argumentation Strategies on Wikipedia. In Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (*ACL 18*).
- Roxanne El Baff, Henning Wachsmuth, **Khalid Al-Khatib**, and Benno Stein. Challenge or Empower: Revisiting Argumentation Quality in a News Editorial Corpus. In Proceedings of the 22nd Conference on Computational Natural Language Learning (*CoNLL 2018*).
- Wei-Fan Chen, Henning Wachsmuth, **Khalid Al-Khatib**, and Benno Stein. Learning to Flip the Bias of News Headlines. In Proceedings of the 11th International Natural Language Generation Conference (*INLG 2018*, November 2018).
- Henning Wachsmuth, Manfred Stede, Roxanne El Baff, **Khalid Al-Khatib**, Maria Skeppstedt and Benno Stein. Argumentation Synthesis following Rhetorical Strategies. In Proceedings of the 27th International Conference on Computational Linguistics (*COLING 18*).
- Henning Wachsmuth, Martin Potthast, **Khalid Al-Khatib**, Yamen Ajjour, Jana Puschmann, Jiani Qu, Jonas Dorsch, Viorel Morari, Janek Bevendorff, and Benno Stein. Building an Argument Search Engine for the Web. In Proceedings of the Fourth Workshop on Argument Mining (*ArgMining 17*), pages 49–59, September 2017.
- **Khalid Al-Khatib**, Henning Wachsmuth, Matthias Hagen, and Benno Stein. Patterns of Argumentation Strategies across Topics. In Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing (*EMNLP 17*), pages 1362-1368, September 2017. Association for Computational Linguistics.
- Johannes Kiesel, Henning Wachsmuth, **Khatib Al-Khatib**, and Benno Stein. WAT-SL: A Customizable Web Annotation Tool for Segment Labeling. In Proceedings of the Software Demonstrations at the 15th Conference of the European Chapter of the Association for Computational Linguistics (*EACL 17*), pages 13-16, April 2017.
- **Khalid Al-Khatib**, Henning Wachsmuth, Johannes Kiesel, Matthias Hagen, and Benno Stein. A News Editorial Corpus for Mining Argumentation Strategies. In Proceedings of the 26th International Conference on Computational Linguistics (*COLING 16*), pages 3433-3443, December 2016.
- Henning Wachsmuth, **Khalid Al-Khatib**, and Benno Stein. Using Argument Mining to Assess the Argumentation Quality of Essays. In Proceedings of the 26th International Conference on Computational Linguistics (*COLING 16*), pages 1680-1692, December 2016.
- **Khalid Al-Khatib**, Henning Wachsmuth, Matthias Hagen, Jonas Köhler, and Benno Stein. Cross-Domain Mining of Argumentative Text through Distant Supervision. In 15th Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (*NAACL 16*), pages 1395-1404, June 2016. Association for Computational Linguistics.
- **Khalid Al-Khatib**. The Web as a Corpus of Argumentation. In: Report of Dagstuhl Seminar on *Debating Technologies* (15512), vol. 5, no. 12, p. 22-22, 2015. <http://www.dagstuhl.de/15512>.
- **Khalid Al-Khatib** and Noam Slonim. Computational Argumentation Competitions and Data. In: Report of Dagstuhl Seminar on *Debating Technologies* (15512), vol. 5, no. 12, p. 39-40, 2015. <http://www.dagstuhl.de/15512>.
- Johannes Kiesel, **Khalid Al-Khatib**, Matthias Hagen, and Benno Stein. A Shared Task on Argumentation Mining in Newspaper Editorials. In Proceedings of the 2nd Workshop on Argumentation Mining (*ArgMining 15*), pages 35-38, Denver, Colorado, June 2015. Association for Computational Linguistics.
- **Khalid Al-Khatib**, Hinrich Schütze, and Cathleen Kantner. Automatic Detection of Point of View Differences in Wikipedia. In Proceedings of the 24th International Conference on Computational Linguistics (*COLING 12*): Technical Papers, December 8-15, 2012, Mumbai, India, pages 33-50, 2012.

## References

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### **Prof. Dr. Benno Stein**

CHAIR OF THE WEB TECHNOLOGY AND INFORMATION SYSTEMS GROUP AT BAUHAUS-UNIVERSITÄT WEIMAR

- [benno.stein@uni-weimar.de](mailto:benno.stein@uni-weimar.de)

### **Prof. Dr. Matthias Hagen**

CHAIR OF THE BIG DATA ANALYTICS GROUP AT MARTIN LUTHER UNIVERSITY HALLE-WITTENBERG

- [matthias.hagen@informatik.uni-halle.de](mailto:matthias.hagen@informatik.uni-halle.de)

### **Junior-Prof. Dr. Henning Wachsmuth**

CHAIR OF THE COMPUTATIONAL SOCIAL SCIENCE GROUP AT PADERBORN UNIVERSITY

- [henningw@upb.de](mailto:henningw@upb.de)

### **Junior-Prof. Dr. Martin Potthast**

CHAIR OF THE TEXT MINING AND RETRIEVAL GROUP AT LEIPZIG UNIVERSITY

- [martin.potthast@uni-leipzig.de](mailto:martin.potthast@uni-leipzig.de)

### **Prof. Dr. Hinrich Schütze**

CHAIR OF COMPUTATIONAL LINGUISTICS AT UNIVERSITY OF MUNICH (LMU)

- [hs2016@cislmu.org](mailto:hs2016@cislmu.org)