Todor Mihaylov

Department of Computational Linguistics
Heidelberg University
Im Neuenheimer Feld 325
69120 Heidelberg, Germany
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mihaylov@cl.uni-heidelberg.de

RESEARCH INTERESTS	*Natural Language Processing, Deep Learning, Natural Language Understanding, Reading Comprehension with External Knowledge, Question Answering*

EDUCATION

PhD Candidate in Computational Linguistics — April 2016 - (Expected Jan 2019)
Research Training Group AIPHES
Department of Computational Linguistics
Heidelberg University, Germany

MSc in Computer Science — October 2013 - July 2015
Information Retrieval and Knowledge Discovery
Sofia University, Sofia, Bulgaria

Bachelor of Computer Science, — September 2008 - May 2012
Computer Systems and Technologies
Technical University of Sofia, Sofia, Bulgaria

WORK EXPERIENCE

Research Intern — April 2018 - June 2018
The Allen Institute for Artificial Intelligence, Seattle, WA, USA
Work on science question answering at the Aristo team.

Applied Scientist Intern — June 2017 - September 2017
Amazon AI, AWS Deep Learning, Palo Alto, CA, USA
Work on transfer learning for question answering.

Software Engineer — October 2008 - March 2016
"Acstre" Software Development Group
Faculty of Applied Mathematics and Informatics
Technical University of Sofia
Developing web and server business applications.

PUBLICATIONS   *Discourse-Aware Semantic Self-Attention*   Nov 2019
for Narrative Reading Comprehension
Proceedings of the 2019 Conference on Empirical Methods in Natural Language
Processing and 9th International Joint Conference on Natural Language Process-
ing, EMNLP-IJCNLP 2019
Todor Mihaylov, Anette Frank

Can a Suit of Armor Conduct Electricity? A New Dataset   Oct 2018
for Open Book Question Answering
Proceedings of the 2018 Conference on Empirical Methods in Natural Language Pro-
cessing, EMNLP 2018
Todor Mihaylov, Peter Clark, Tushar Khot, Ashish Sabharwal

Knowledgeable Reader: Enhancing Cloze-Style Reading Comprehension   July 2018
with External Commonsense Knowledge
Proceedings of the 56th Annual Meeting of the Association for Computational Lin-
guistics, ACL 2018
Todor Mihaylov, Anette Frank

What's Important in a Text? An Extensive Evaluation of   April 2018
Linguistic Annotations for Summarization
Proceedings of the Second International Workshop on Advances in Natural Language
Processing, Valencia, Spanien.
Markus Zopf, Teresa Botschen, Tobias Falke, Ana Marasovic, **Todor Mihaylov**,
Avinesh P.V.S, Eneldo Loza Menca, Johannes Frnkranz und Anette Frank

The Dark Side of News Community Forums: March 2018
Opinion Manipulation Trolls
Internet Research, 2018
Todor Mihaylov, Tsvetomila Mihaylova, Preslav Nakov, Llus Mrquez, Georgi D.
Georgiev, Ivan Koychev

Neural Skill Transfer from Supervised Language Tasks   November 2017
to Reading Comprehension
Workshop on Learning with Limited Labeled Data (LLD) at NIPS 2017
Todor Mihaylov, Zornitsa Kozareva, Anette Frank

Large-Scale Goodness Polarity Lexicons for Community   August 2017
Question Answering
In Proceedings of the 40th International Conference on Research and Development
in Information Retrieval (SIGIR) 2017
Todor Mihaylov, Daniel Balchev, Yasen Kiprov, Ivan Koychev, Preslav Nakov

Story Cloze Ending Selection Baselines and Data Examination   *April 2017*
Proceedings of the Linking Models of Lexical, Sentential and Discourse-level Seman-
tics Shared Task 2017
Todor Mihaylov, *Anette Frank*

AIPHES-HD system at TAC KBP 2016: Neural Event Trigger Span Detection and
Event Type and Realis Disambiguation with Word Embeddings   November 2016
Proceedings of the TAC Knowledge Base Population (KBP) 2016
Todor Mihaylov, Anette Frank

Discourse Relation Sense Classification Using Cross-argument Semantic Similarity

Based on Word Embeddings   August 2016
Proceedings of the Twentieth Conference on Computational Natural Language Learning - Shared Task, 2016
Todor Mihaylov, Anette Frank

Hunting for Troll Comments in News Community Forums   August 2016
The 54th Annual Meeting of the Association for Computational Linguistics, ACL 2016
Todor Mihaylov, Preslav Nakov, Georgi D Georgiev

SemanticZ at SemEval-2016 Task 3: Ranking Relevant Answers
in Community Question Answering Using Semantic Similarity Based On Fine-tuned
Word Embeddings   June 2016
International Workshop on Semantic Evaluation (SemEval) 2016
Todor Mihaylov, Preslav Nakov

SUper Team at SemEval-2016 Task 3:Building a Hybrid System for Community Question Answering   June 2016
International Workshop on Semantic Evaluation 2016
Tsvetomila Mihaylova, Pepa Gencheva, Martin Boyanov, Ivana Yovcheva
Todor Mihaylov, Momchil Hardalov, Yasen Kiprov, Daniel Balchev, Ivan Koychev, Preslav Nakov Ivelina Nikolova, Galia Angelova

Exposing Paid Opinion Manipulation Trolls   September 2015
Recent Advantages in Natural Language Processing (RANLP) 2015
Todor Mihaylov, Ivan Koychev, Georgi D Georgiev, Preslav Nakov

Finding Opinion Manipulation Trolls in News Community Forums   July 2015
The 19th Conference on Computational Natural Language Learning, CONLL 2015
Todor Mihaylov, Georgi D Georgiev, Preslav Nakov

SU-FMI: System Description for SemEval-2014 Task 9 on Sentiment   August 2014
Analysis in Twitter, SemEval 2014
Boris Velichkov, Borislav Kapukaranov, Ivan Grozev, Jeni Karanesheva
Todor Mihaylov, Yasen Kiprov, Georgi Georgiev, Ivan Koychev, Preslav Nakov

REVIEWING   *Conferences:* EMNLP 2016, ACL 2017, ACL 2018, NAACL-HLT 2019
Workshops: SemEval 2014, SemEval 2016, CONLL-ST 2016, LSDSem-ST 2017, Rep4NLP 2018, SSS 2019, Rep4NLP 2019, COIN 2019

TEACHING   *Teaching Assistant (Machine Learning, Information Retrieval)* Oct 2014 - Feb 2016
EXPERIENCE   Faculty of Mathematics and Informatics
Sofia University

HONORS AND   *3rd in LDSem 2017 Shared Task on the Story Cloze Test*   Feb 2017
AWARDS   3rd best performing system in the official evaluation

1st in CoNLL-2016 Shared Task on Discourse Relation   May 2016
Sense Classification

Best performing system in the overall evaluation for the Discourse Relation Sense Classification for English

3rd in SemEval-2016 Task 3: Community Question Answering   Feb 2016
3rd place in Subtask A, English (Question-Comment Similarity)
3rd place in Subtask C, English (Question-External Comment Similarity)
1st place in Subtask C, English (Question-External Comment Similarity) (as a part of a team)

IIE's Summer Entrepreneurship Program (SEP) scholarship   July 2014
International Institute of Education's Summer Entrepreneurship Program (SEP) scholarship part of the Bulgaria Young Leaders Program(BYLP) by the America for Bulgaria Foundation

Winner of BAIT Awards for 2013 , Students awards   January 2014
Annual Awards of Bulgarian Association of Information Technologies

WEBLOZ Students'12 winner in category Web Applications   February 2012
Student software development competition

TECHNOLOGY SKILLS
Machine learning and NLP tools: PyTorch, TensorFlow, AllenNLP, scikit-learn, gensim, NLTK, Libsvm/Liblinear, GATE
Programming Languages: Python, C#, Java
Other Technologies: Apache Lucene, Apache Solr, PostgreSQL

LANGUAGES
Bulgarian: Native language
English: Full professional proficiency
German: Elementary proficiency

ADDITIONAL
Personal page: `http://www.cl.uni-heidelberg.de/~mihaylov/`
Google Scholar profile: `https://scholar.google.de/citations?user=igempQwAAAAJ&hl=en`
Linkedin profile: `https://www.linkedin.com/in/todormihaylov/`
GitHub profile: `https://github.com/tbmihailov`

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