

CURRICULUM VITAE



Sylvia Vassileva

svassileva@fmi.uni-sofia.bg,
tel.: +359 898528098

EDUCATION

PhD in Computer Science	Mar 2023 – expected Mar 2026
Sofia University St. Kliment Ohridski	
Dissertation Title: Methods for automatic recognition and linking of concepts in medical and specialized texts	
Advisors: Prof. Ivan Koychev, Prof. Svetla Boytcheva	
MSc in Artificial Intelligence	Oct 2019 – Feb 2022
Sofia University St. Kliment Ohridski	
BSc in Informatics	Oct 2004 – Jul 2008
Sofia University St. Kliment Ohridski	

RESEARCH INTERESTS

NLP, Information extraction from clinical texts, Multi-lingual information extraction, Low-resource languages NLP.

RESEARCH EXPERIENCE

Junior Researcher (part-time)	Apr 2023 – present
Sofia University St. Kliment Ohridski	
<ul style="list-style-type: none">Working as part of the SUMMIT Intelligent Systems groupDeveloping methods for information extraction from clinical texts in different languages, including English, Spanish and Bulgarian	

PUBLICATIONS

- Vassileva, S.**, Grazhdanski, G., Boytcheva, S. and Koychev, Ivan. Fusion @ BioASQ MedProcNER: Transformer-based Approach for Procedure Recognition and Linking in Spanish Clinical Text Notebook for the BioASQ Lab at CLEF 2023, 2023. CEUR Workshop Proceedings, volume 3497, 190 – 205.
- Vassileva, S.**, Grazhdanski, G., Boytcheva, S. and Koychev, Ivan. FMI-SU at SemEval-2023 Task 7: Two-level Entailment Classification of Clinical Trials Enhanced by Contextual Data Augmentation, 2023. 17th International Workshop on Semantic Evaluation, SemEval 2023 - Proceedings of the Workshop, 1454 – 1462.
- Vassileva, S.**, Boytcheva, S., and Koychev, Ivan. Tool for Automatic Annotation of Clinical Texts in Bulgarian - BGMedAnno, Information Systems & Grid Technologies: Fifteenth International Conference ISGT'2022. 2022.

4. Velichkov, B., Velchev, G., Panayotov, P., Gerginov, S., **Vassileva, S.**, Koychev, I., Boytcheva, S.. Cascading Approach for Automatic ICD-10 Codes Association to Diseases in Bulgarian. Contemporary Methods in Bioinformatics and Biomedicine and Their Applications, 374, BioInfoMed 2022, LNNS, Springer Nature, 2022, ISSN:23673370, DOI:10.1007/978-3-030-96638-6_27, 27.
5. Velichkov, B., **Vassileva, S.**, Gerginov, S., Kraychev, B., Ivanov, I., Ivanov, P., Boytcheva, S.. Comparative Analysis of Fine-tuned Deep Learning Language Models for ICD-10 classification task for Bulgarian Language. RANLP 2021, INCOMA Ltd., 2021, DOI:10.26615/978-954-452-072-4_163, 1452-1458.
6. **Vassileva, S.**, Todorova, G., Ivanova, K., Velichkov, B., Koychev, I., Angelova, G., Boytcheva, S.. Automatic Transformation of Clinical Narratives into Structured Format. Proceedings of the Student Research Workshop, RANLP 2021, INCOMA Ltd., 2021, DOI:10.26615/issn.2603-2821.2021_030, 219-227.
7. Velichkov, B., Gerginov, S., Panayotov, P., **Vassileva, S.**, Velchev, G., Koychev, I., Boytcheva, S.. Automatic ICD-10 codes association to diagnosis: Bulgarian case. In Proc. of CSBio '20: Proceedings of the Eleventh International Conference on Computational Systems-Biology and Bioinformatics, Bangkok, Thailand, 19-21 November 2020, ACM Digital Library, 2020, ISBN:978-1-4503-8823-8/20/11, DOI:10.1145/3429210.3429224, 46-53.

CONFERENCE PRESENTATIONS

1. **Vassileva, S.**, Grazhdanski, G., Boytcheva, S. and Koychev, Ivan. Fusion @ BioASQ MedProcNER: Transformer-based Approach for Procedure Recognition and Linking in Spanish Clinical Text Notebook for the BioASQ Lab at CLEF 2023. Thessaloniki, Greece.
2. **Vassileva, S.**, Boytcheva, S., Grazhdanski, G. and Koychev, Ivan. FMI-SU at SemEval-2023 Task 7: Two-level Entailment Classification of Clinical Trials Enhanced by Contextual Data Augmentation - poster. 17th International Workshop on Semantic Evaluation, SemEval 2023. Toronto, Canada.
3. **Vassileva, S.**, Boytcheva, S., and Koychev, Ivan. Tool for Automatic Annotation of Clinical Texts in Bulgarian - BGMedAnno, Information Systems & Grid Technologies: Fifteenth International Conference ISGT'2022. Sofia, Bulgaria.
4. **Vassileva, S.**, Todorova, G., Ivanova, K., Velichkov, B., Koychev, I., Angelova, G., Boytcheva, S. Automatic Transformation of Clinical Narratives into Structured Format. Student Research Workshop, RANLP 2021. Online.

PROFESSIONAL EXPERIENCE

Architect - Technical, Enterprise, Senior Enterprise Mentormate	Nov 2016 – present
<ul style="list-style-type: none"> • Solution and technical architecture design of custom software projects and third-party system integrations • Cloud infrastructure architecture – Azure, AWS 	
Software Development Manager Mentormate	Jan 2016 – Jan 2018
<ul style="list-style-type: none"> • Managing a team to ensure successful project delivery and individual career development 	
.NET Developer, Senior .NET Developer, Team Lead Mentormate	Jan 2011 – Dec 2015
<ul style="list-style-type: none"> • Developing custom software using Microsoft technologies 	
Founder Storm Airsoft Ltd.	May 2008 – Jan 2011

- Hobbyist business for importing airsoft equipment and accessories

.NET Developer

Jul 2006 – Jun 2008

WizeFish Ltd.

- Developing custom software using Microsoft technologies

TECHNICAL SKILLS

.NET, Azure, AWS, Infrastructure as code, Microservices and Serverless architecture, Domain-driven design.

LANGUAGES

Bulgarian - native, English – proficient.