Kristian Miok

Curriculum Vitae

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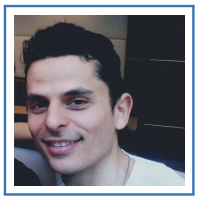
Born on [redacted]



Education

2019 to current — **Member of Laboratory for Cognitive Modeling,** *Faculty of Computer and Information Science, University of Ljubljana*, Slovenia.

- Deep learning models for Natural Language Processing.
- Explanation of Black Box Decison models
- Probabilistic Neural Networks for Text Classification.

2017 to current — **PhD in Machine Learning**, *West University of Timisoara*, Romania.

- Statistical and Machine Learning models applied on Textual and Biomedical data.
- Predictive Statistical Modeling.
- Probabilistic Machine Learning.

2013–2016 — **Master of Statistics**, *Hasselt University*, Belgium.

- Bio-statistical Modeling.
- Data Mining Methods.
- Clinical Trials.

2012–2015 — **Master of Mathematics**, *University of Belgrade*, Serbia.

2008–2012 — **Bachelor of Mathematics**, *University of Belgrade*, Serbia.

Experience

Jan. 2022 to current — **Statistician on the project**, *IDLE Crayfish project, West University of Timisoara, Romanaia.*

- To assess genetic diversity and ecological requirements of the idle crayfish populations.
- To establish the conservation measures for idle crayfish populations.

Nov. 2020 to current — **NLP Researcher on the project**, *ROGER project, West University of Timisoara, Romanaia.*

- The ROGER research project aims at developing a corpus-based methodology for the analysis of academic writing genres at Romanian universities from a contrastive perspective: genres written in Romanian versus genres written in English.

June. 2019 to Dec. 2021 — **Machine Learning Researcher on the project**, *Cross-Lingual Embeddings for Less-Represented Languages in European News Media (EMBEDDIA) project, Faculty of Computer and Information Science, Ljubljana.*

- the EMBEDDIA project investigate methods based on cross-lingual word embeddings, use them to develop technologies for less-resourced languages, and deploy them to produce efficient, accurate applications for the news media industry.
- An important part of the project is development and adaptation of word embedding models that are sensitive to informality, ambiguity and context of use.

Oct. 2018 to Aug. 2021 **Statistician on the project**, *Bioeconomic approach to antimicrobial agents - use and resistance project, West University of Timisoara, Romania.*

- The project covers a bio-economic survey of consumption/usage of antimicrobial products.
- The scope is to investigate a resistance of microorganisms (such as coli and Staphylococcus aureus) to antimicrobial products based on dairy cows data.

Apr. 2017 to Aug. 2017 **Visualization Data Engineer**, *P3 Communications Engineering Company, Belgrade, Serbia.*

- Analyzing and visualization of telecommunication data using Tableau and R.
- Accessing and manipulation data from the cloud.
- Implementing Data Mining techniques using R to Tableau integration.

Nov. 2016 to Apr. 2017 **Volunteering as Database Administrator**, *Versko Dobrotvorno Starateljstvo, Belgrade, Serbia.*

- Building a database for the charity organization users.
- Importing, managing and reporting data in Access.

Professional Skills

Languages: Serbian (native), English (fluent) and Romanian (advanced).

Software: Microsoft Office Word, Excel, PowerPoint, Latex.

Programming Software: Python, R, SAS, Tableau, SAS Visual Analytics, WinBUGS, Matlab.

Certificates

Jul. 2016 **SAS Certified Base Programmer for SAS 9**, *Sas Institute, Tervuren, Belgium.*

Aug. 2016 **Introduction in SAS and trained in Visual Analytics**, *Sas Institute, Tervuren, Belgium.*

Academic Activities

May. 2021 **Committee member for The Seventeenth Advanced International Conference on Telecommunications AICT 2021**, *Valencia, Spain.*

Jan. 2021 **Reviewer for Transactions on Asian and Low-Resource Language Information Processing journal**, *ScholarOne.*

Dec. 2020 **Reviewer for Journal of Ambient Intelligence and Humanized Computing**, *Springer.*

Oct. 2017 to Feb. 2018 **Teaching Fellow for Databases I laboratory classes**, *second year bachelor students, Bachelor of Informatics, West University of Timisoara.*

Publications

2021

- Pârvulescu, L., Stoia, D. I., Miok, K., Ion, M. C., Puha, A. E., Melania Sterie, Mihajel Vereș, Ioan Marcu, Mirela Danina Muntean, and Aburel, O. M. (2021). Force and Boldness: Cumulative Assets of a Successful Crayfish Invader. Frontiers in Ecology and Evolution, 9, 49.

- Miok, K., Škrlj, B., Zaharie, D., and Robnik-Šikonja, M. (2021). To BAN or not to BAN: Bayesian Attention Networks for Reliable Hate Speech Detection. accepted for publication at Cognitive Computation Journal.

2020

- Miok K, Pirš G, Robnik-Šikonja M (2020) Bayesian methods for semi-supervised text annotation. In: Proceedings of the 14th Linguistic Annotation Workshop, Association for Computational Linguistics, Barcelona, Spain, pp 1–12.

- Miok, K., Škrlj, B., Zaharie, D., and Robnik-Šikonja, M. (2020). Bayesian BERT for Trustful Hate Speech Detection. Presented as poster at *NeurIPS 2020*, Europe meetup on Bayesian Deep Learning and *ICML 2020*, Workshop on Uncertainty and Robustness in Deep Learning.

- Pârvulescu, L., Iorgu, E. I., Zaharia, C., Ion, M. C., Satmari, A., Krapal, A. M., Popa, O. P., Miok, K., Petrescu, I., and Popa, L. O. (2020). The future of endangered crayfish in light of protected areas and habitat fragmentation. Scientific reports, 10(1), 1-12.

2019

- Miok, K., Nguyen-Doan, D., Robnik-Šikonja, M., and Zaharie, D. (2019, November). Multiple Imputation for Biomedical Data using Monte Carlo Dropout Autoencoders. In 2019 E-Health and Bioengineering Conference (EHB) (pp. 1-4). IEEE.

- Miok, K., Nguyen-Doan, D., Škrlj, B., Zaharie, D., and Robnik-Šikonja, M. (2019, October). Prediction Uncertainty Estimation for Hate Speech Classification. In International Conference on Statistical Language and Speech Processing (pp. 286-298). Springer, Cham.

- Miok, K., Nguyen-Doan, D., Zaharie, D., and Robnik-Šikonja, M. (2019, September). Generating Data using Monte Carlo Dropout. In 2019 IEEE 15th International Conference on Intelligent Computer Communication and Processing (ICCP) (pp. 509-515). IEEE.

2018

- Miok, K. (2018, September). Estimation of prediction intervals in neural network-based regression models. In 2018 20th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC) (pp. 463-468). IEEE.