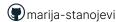# Marija Stanojevic

Deep Learning. Research. NLP. Bioinformatics. Data Science.

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EXPERIENCE

CAMBRIDGE COGNITION, WINTERLIGHT LABS | APPLIED MACHINE LEARNING SCIENTIST
Aug 2022 - | Toronto, ON, Canada

- → Created multi-modal deep learning architecture, enhancing disease category and severity prediction accuracy by 12% (Transformers, CNN, PyTorch, Docker, AWS).
- → General Chair of Machine Learning for Cognitive and Mental Health Workshop @ AAAI 2024 (Research, Project Lead, Team Lead).

TEMPLE UNIVERSITY | FELLOW, RESEARCH (RA) AND TEACHING ASSISTANT (TA)
Jan 2017 - Apr 2023 | Philadelphia, PA, USA

- → **Research Assistant** (Sep - May 2017/18, 2020/21, 2): NSF, NIH, CDC, and IQVIA funded projects (Transformers, RNN, DL, NLP, Graphs, IR, Python, Keras, PyTorch).
- → **Teaching Assistant** (2018/19, 2020/21, 2021/22). **Courses**: 1) Data Mining; 2) C and Assembler; 3) Data Structures; **2022 Outstanding Graduate TA Award**.
- → **Presidential Fellow** (Jan 2017 - Aug 2020): awarded based on success.
- → **Main Organizer** of Mid-Atlantic Student Colloquium on Speech, Language and Learning 2022 (Project Lead, Team Lead).

LINKEDIN | PHD MACHINE LEARNING ENGINEER INTERN
June - August 2021 | Philadelphia, PA, USA

- → Proposed and implemented adaptation of neural collaborative filtering with multimodal longitudinal learning (Spark, Scala, Keras, Tensorflow, Dali).

FACEBOOK | PHD MACHINE LEARNING ENGINEER INTERN
June - August 2020 | Philadelphia, PA, USA

- → Designed and implemented a novel multitask multilabel multimodal attention architecture for extreme classification (Python, Presto, PyTorch, Caffe2, DL, Transformers, internal tools).

FACEBOOK | PHD MACHINE LEARNING ENGINEER INTERN
June - August 2019 | Menlo Park, CA, USA

- → Recruiting Science: Improved candidate search by implementing NLP and IR techniques to reduce long tail in skills distribution and by proposing, implementing, and evaluating a novel Siamese-like architecture to embed job descriptions (Python, Presto, PyTorch, Caffe2, DL, statistical NLP, IR, internal tools).

ALLIANCE DATA SYSTEMS, EPSILON, CONVERSANT | PHD DATA SCIENCE INTERN
May – August 2018 | Chicago, IL, USA

- → Pioneered a solution to a large-volume spatio-temporal problem utilizing mean-shift, quick-shift, and hdbscan. Created a proxy to test existing product.
- → Defined evaluation metrics to show potential for implementation into a product (Hadoop, Hive, python, pandas, geo, folium, geopandas, and shapely).

ARBOR LABS | SOFTWARE ENGINEER
September 2015 – January 2017 | Belgrade, Serbia

- → Led school performance insight software development, achieving a 30% improvement in efficiency through optimized data cleaning and integration.
- → Reduced costs by 50% by implementing in-house data science and data visualization techniques (PHP, ETL, AWS, R, Python, MySQL, D3.js).

SKILLS

Proficient:
Deep Learning • Transformers • NLP • Python • Keras • PyTorch • Research • Data Science • Data Mining • Algorithms • Data Structures • MySQL/HIVE/Presto • C/C++ • Team/Project Lead • Java • IR

Experienced:
Tensorflow • Hadoop • Bioinformatics • Docker • CUDA • Graphs • Scala • Spark

EDUCATION

TEMPLE UNIVERSITY
PHD, MACHINE LEARNING
Apr 2023 | Philadelphia, PA, USA

UNIVERSITY OF BELGRADE
MENG, SIGNAL PROCESSING
Sep 2017 | Belgrade, Serbia

UNIVERSITY OF BELGRADE
BENG, SOFTWARE ENGINEERING
Sep 2016 | Belgrade, Serbia

ACTIVITIES

- • **Published** 19 peer-reviewed papers, 6 as a first author
- • **Citations**: 136, h-index: 5
- • **Virtual Chair** of ICLR 2021 and ICML 2021
- • **Mentored** four PhD and five undergraduate students
- • **Associate Editor**, Social Network Analysis and Mining
- • **Reviewer** at ACL, EACL, ACL ARR 2021-24; NAACL, EMNLP 2022-24; ECAI 2023; ECML 2022; Nature Scientific Reports 2019; GHC AI 2021; and more

REFERENCES

Upon request or see Linkedin