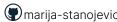
# Marija Stanojevic

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 DL history-enhanced neural collaborative filtering architecture for course recommendation (Spark, Scala, Keras, Tensorflow, Dali).

FACEBOOK | PhD Machine Learning Engineer Intern June - August 2020 | Philadelphia, PA

- → Designed and implemented a novel neural network architecture to address an extreme classification challenge in a multi-task multi-label manner.
- → Tech: 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.
- → Tech: 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