

# Marija Stanojevic

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

 marija-stanojevic.github.io  mstanojevic118@gmail.com  marijastanojevic  marija-stanojevic  mstanojevic118

## 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