

Marija Stanojevic

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

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EXPERIENCE

ELLIPSIS HEALTH | LEAD APPLIED MACHINE LEARNING SCIENTIST

May 2024 - | Toronto, ON, Canada

- **Led** machine learning team.

CAMBRIDGE COGNITION, WINTERLIGHT LABS | APPLIED MACHINE LEARNING SCIENTIST

Aug 2022 - | Toronto, ON, Canada

- **Led** the development of a multimodal, multilingual automatic framework designed to predict the severity score and category of a disease from a speech sample in an open-ended task. (Transformers, CNN, PyTorch, Docker, AWS, Research).
- **Led** machine learning research initiative including organization of Machine Learning for Cognitive and Mental Health Workshop @ AAAI 2024 (Team & Project Lead).

TEMPLE UNIVERSITY | FELLOW, RESEARCH (RA) AND TEACHING ASSISTANT (TA)

Jan 2017 - May 2022 | 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). **Outstanding TA Award 2022.**
- **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, DL, Transformers).

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** an initiative for efficiency improvement through optimized data integration, and modeling for school insight software (Project & Team Lead, PHP, ETL, SQL).

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:** 152, h-index: 6

- **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