Marija Stanojevic

Center for Data Analytics and Biomedical Informatics
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Research Interest

Machine Learning, Natural Language Processing, Deep Learning, Transfer Learning, Information Extraction, Complex Data Mining, Data Science

Education

Temple University, Ph.D. student, Jan 2017 - expected May 2021
Center for Data Analytics and Biomedical Informatics, College of Science and Technology
Advised by: Zoran Obradovic

University of Belgrade, M.Eng, Sep 2017
Signals and Systems Department, School of Electrical Engineering
Advised by: Zeljko Djurovic
Thesis: Determination of the Similarity Between the Scientific Papers Using Machine Learning Methods

University of Belgrade, B.Eng, Sep 2016
Software Engineering, School of Electrical Engineering
Thesis: Implementation of Web Crawler in Java; Generation of Clusters and Recommendations Using Machine Learning Algorithms

Experience

Temple University, Philadelphia, PA, USA
Research Assistant, Sep 2017 - May 2018; Sep 2020 - May 2021
2017/18: Pilot of a Cognitive Computing System to Analyze Immunization Data, CDC
2020/21: EAGER: Assessing Influence of News Articles on Emerging Events, NSF
Teaching Assistant, Sep 2018 - May 2019; Sep 2020 - May 2021
Courses: 1) Data Structure; 2) Computer Systems and Low-Level Programming
Presidential Fellow, Jan 2017 - Aug 2020

Facebook, Inc, New York, NY, USA
PhD Software Engineer Intern (Machine Learning), Jun - Aug 2020
Description: Design and implementation of a novel deep learning architecture for extreme class classification. Technologies: PyTorch, Presto, internal tools.

Facebook, Inc, Palo Alto, CA, USA
PhD Software Engineer Intern (Machine Learning), Jun - Aug 2019
Description: Natural Language Processing at Recruiting Science Team. Technologies and methods: Python, Presto, Caffe2, fastText, deep learning, statistical NLP, internal tools.

Alliance Data Systems, Conversant division, Chicago, IL, USA
PhD Data Science Intern, Jun - Aug 2018
Description: Unsupervised modeling of large-volume spatio-temporal data into clusters with stable properties using statistical analysis and machine learning

Arbor Labs, Belgrade, Serbia
Data Engineer, Sep 2015 - Jan 2017
Description: Collecting and modeling data to predict UK's schools achievement.
Award: Product received School Improvement Service Award in UK.

Awards

Significant contributor at F31 NIH Fellowship, May 2020 - May 2022
Grace Hopper Celebration (GHC) Student Scholar, 2020
Temple University Presidential Fellowship, 2017 - 2020
Broadening Participation in Data Mining travel & participation award, 2019
Central European Exchange Program for University Studies (CEEPUS) Scholarship, 2013
JoinEUSee (Erasmus Mundus Exchange Program) Scholarship, 2012
German Academic Exchange Service (DAAD) Summer Course Scholarship, 2012
Fund for Outstanding Scientific and Art Youth, Ministry of Education, Serbia, 2008-2012
Award for the top 1% high school students in Serbia, The Royal Family of Serbia, 2010
Fund for Young Talents, Ministry of Youth, Serbia: award for outstanding results, 2008

Publications

[Book Chapter] **Stanojevic, M.**, Alshehri, J., Obradovic, Z. (in press). High Performance Computing for Understanding Natural Language. In Supercomputing: Methodologies and Applications, Editors: Milutinovic, V, Kotlar, M.

Ljubic, B., Hai, A. A., **Stanojevic, M.**, Diaz, W., Polimac, D., Pavlovski, M., Obradovic, Z., (in press). Predicting Complications of Diabetes Mellitus Using Advanced Machine Learning Algorithms. *In Journal of the American Medical Informatics Association*

[Preprint] Tarca, A.L., Pataki, B.A., Romero, R., Sirota, M., Guan, Y., Kutum, R., Gomez-Lopez, N., Done, B., Bhatti, G., Yu, T. and Andreoletti, G., Chaiworapongsa, T., **The DREAM Preterm Birth Prediction Challenge Consortium**, Hassan, S.S., Hsu, C.D., Aghaeepour, N., Stolovitzky, G., Csabai, I., Costello, J.C. (2020, Jun). Crowdsourcing assessment of maternal blood multi-omics for predicting gestational age and preterm birth. bioRxiv.

[Preprint] Pham, Q., **Stanojevic, M.** and Obradovic, Z. (2020, May). Extracting Entities and Topics from News and Connecting Criminal Records. arXiv preprint arXiv:2005.00950.

Stanojevic, M.[1], Alshehri, J[1]. and Obradovic, Z., 2019, August. Surveying Public Opinion Using Label Prediction on Social Media Data. *In IEEE/ACM Int'l Conf. Social Networks Analysis and Mining.*

Stanojevic, M., Alshehri, J., Dragut, E. and Obradovic, Z., 2019, July. Biased News Data Influence on Classifying Social Media Posts. *In 3rd International Workshop on Recent Trends in News Information Retrieval (NewsIR 2019), collocated with 42nd International ACM SIGIR Conf. on Research Development in Information retrieval.*

Han, C., Cao, X.H., **Stanojevic, M.**, Ghalwash, M. and Obradovic, Z., 2019, May. Temporal Graph Regression via Structure-Aware Intrinsic Representation Learning. *In Proceedings of the 2019 SIAM International Conference on Data Mining (pp. 360-368). Society for Industrial and Applied Mathematics.*

Ball, S., **Stanojevic, M.**, Knighton, C., Campbell, W., Thaung, A., Fisher, A., Bhatti, A., Kang, Y., Srivastava, P., Zhou, F. and Obradovic, Z., 2018, November. 2474. Early Feedback From a Pilot of a Cognitive Computing System to Analyze Immunization Data. *In Open Forum Infectious Diseases (Vol. 5, No. Suppl 1, p. S741). Oxford University Press.*

Stanojevic, M., Martinez, I. S., Mazur, N., 2014. Virtual Internships Provided In Collaboration Among Companies And Universities-The Future Of Practical Development Of

Students. *In INTED2014 Proceedings (pp. 6939-6945), IATED.*

Campogiani, G., Czahajda, R., Mazur, N., **Stanojevic, M.**, 2014. Involving students in curriculum development. *In SEFI Annual Conference Proceedings.*

Other Presentations

Surveying Public Opinion Using Label Prediction on Social Media Data, The 8th Mid-Atlantic Student Colloquium on Speech, Language and Learning, March 2020

Modeling Scientific Texts, Temple University, Philadelphia, October 2019

Workshop: Introduction to Artificial Intelligence and Machine Learning, Temple University, Philadelphia, April 2019

A pilot of a cognitive computing system to analyze immunization data, NSF US-Serbia & West Balkan Data Science Workshop, Belgrade, August 2018

ETL with big data implemented in PHP and SQL, PHP Serbia meetup, Belgrade, June 21st, 2016

Developing data focused software for insight into education with SCRUM methodology, Faculty of Information Technologies, Metropolitan University, Belgrade, May 26th, 2016

Service and Outreach

Program Committee Member at "Student Research Workshop at ACL 2020" and "The Tenth International Conference on Advances in Information Mining and Management (IMMM) 2020"

Reviewer at: The 15th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2021); Nature: Scientific Reports; Mary Ann Liebert: Big Data; WiML workshop 2019 (co-located with NeurIPS); Springer: Social Network Analysis and Mining

Co-reviewer at Conference on Knowledge Discovery and Data Mining, SIGKDD 2017

Mentor to five undergraduate, two bioinformatics PhD, and one CS PhD student

Main Organiser of the 9th Mid-Atlantic Student Colloquium on Speech, Language and Learning (MASC-SLL 2021)

Co-founder, organiser and facilitator of "Research Mixer" - interdisciplinary gathering at College of Science and Technology at Temple University with goal to present and discuss opportunities for interdisciplinary research (Spring 2019 - now)

Volunteer and contributor to organisation of virtual ICLR 2020 (with special acknowledgement by organisers)

Volunteer at ACL 2020 and ICML 2020

Technical Workshop Chair in Board of STARS Computing Corps Chapter at Temple University (Spring 2019)

Instructor of computer science at TechGirlz workshops (February 2018 - May 2019)

Soft-skills and technical trainer: delivered more than 200 hours of workshops to STEM students across Europe (Board of European Students of Technology - BEST) (2012 - 2016)

Member of European management of Board of European Students of Technology (BEST) (2012 - 2013)

Co-founder and organiser of International Science Festival "Science is not Boogeyman" with purpose to promote STEM to students grades 1-12, Nis, Serbia (2008 - 2012)

SOCIETIES

Student member of Society for Industrial and Applied Mathematics (SIAM) (2019 -)
Student member of Association for Computing Machinery (ACM) (2018 -)
Student member of Association for Computing Machinery on Women (ACM-W) (2018 -)
Board of European Students of Technology (BEST) (2010 - 2016)