Aleksandar Bojchevski

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Education

2016 – 2020	**Ph.D. Candidate**, *Technical University of Munich* Thesis: "Machine Learning on Graphs in the Presence of Noise and Adversaries". Focus on adversarial examples, robustness certificates, and representation learning for graph data.
2013 – 2015	**M.Sc. Informatics**, *Technical University of Munich*, GPA: 1.2, with high distinction. Thesis: "Semi-supervised learning for biomedical named-entity recognition".
2009 – 2013	**B.Eng. Informatics**, *Faculty of Computer Science and Engineering, Skopje*, GPA: 9.9/10 Thesis: "Personality prediction based on information from social networks".

Work experience

2019 – now	**Project Leader**, *Software Campus*, Munich Developing and leading a research project (100K EUR) on "Deep Representations for Evolving Networks". In collaboration with Huawei and TU Munich as part of the Software Campus program.
Sep – Dec 2018	**Research Intern**, *Google*, New York City Worked with the graph mining team on: graph neural networks for large-scale semi-supervised classification, generative models for graphs, and adversarial attacks and defenses on graphs.
2010 – 2015	**Senior Software Engineer**, *BMG Universe*, Skopje Responsibilities: architecture design, implementation, testing, and maintenance. Notable projects: ○ Medical software (hearing aids): C++/CLI, .NET, Qt Framework, DLL drivers; ○ Android mobile development: product monitoring dashboard; puzzle games (OpenGL ES)
2011 – 2013	**Android Developer**, *Adverta CS*, Skopje Design and implementation of a content synchronization and scheduling system (Android, C#).

Technical skills

Languages	**Python**, Java, C++, C#, MATLAB, R
Frameworks	Tensorflow, PyTorch, Theano, Android, Qt, .NET, ASP, OpenGL
Databases	Microsoft SQL Server, MySQL, MongoDB

Certifications and Seminars

2019	*Software Campus*: Innovation Management, Cultural Awareness and Decision Making, Convincing communication despite resistance and headwind, Self-Leadership
2018	*CeDoSIA*: Professional Scrum Master, Scientific Paper Writing, User-Centered Research
2012	*Innovation Academy*: Microsoft .NET 4: Web App. Development and Accessing Data

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Awards and Scholarships

2017 – 2018	Microsoft Azure Research Award
2013 – 2015	DAAD (Deutscher Akademischer Austauschdienst) Scholarship
2010 – 2012	Honored student, Faculty of Computer Science and Engineering

2009 | 2nd place, 20th National competition in Informatics, Skopje

Teaching experience and Scientific community service

Teaching Assis. | Machine Learning, Mining Massive Datasets, Large-Scale Graph Analytics and Machine Learning, Robust Data Mining Techniques, Efficient Inference and Large-scale Machine Learning, Introduction to Software Development, Object-oriented Programming, Compilers

(Ext.) Review | ECML PKDD, WWW, ICDM, KDD, DLG, GEM, ICLR, NeurIPS, AAAI

Organization | Macedonian National Competition in Informatics 2012 & 2013

Open source software

g2g/rsc/... | **Author.** Code on GitHub (https://github.com/abojchevski) accompanying several publications: Gaussian node embdeddings, graph poisoning, robust spectral clustering, etc.

nala/nalaf | **Core contributor.** nalaf (Python): NLP framework for entity recognition and relationship extraction. nala (Python): Natural language mutation mention extraction.

Languages

Macedonian | Native language

English | Bilingual proficiency | *TOEFL iBT 114/120*

German | Intermediate | *B1 level (CEFR)*

Selected publications

ICML 2020 | **Bojchevski A**, Klicpera J, Günnemann S. Efficient Robustness Certificates for Discrete Data: Sparsity-Aware Randomized Smoothing for Graphs, Images and More.

KDD 2020 | **Bojchevski A**, Klicpera J, Perozzi B, Kapoor A, Blais M, Rózemberczki B, Lukasik M, Günnemann S. Scaling Graph Neural Networks with Approximate PageRank.

NeurIPS 2019 | **Bojchevski A**, Günnemann S. Certifiable Robustness to Graph Perturbations.

ICML 2019 | **Bojchevski A**, Günnemann S. Attacks on Node Embeddings via Graph Poisoning.

ICLR 2019 | Klicpera J, **Bojchevski A**, Günnemann S. Predict then Propagate: Graph Neural Networks meet Personalized PageRank.

ICML 2018 | **Bojchevski A**, Shchur O, Zügner D, Günnemann S. NetGAN: Generating Graphs via Random Walks.

ICDMW 2018 | Shchur O, **Bojchevski A**, ..., Saber Y. Anomaly Detection in Car-Booking Graphs.

ICLR 2018 | **Bojchevski A**, Günnemann S. Deep Gaussian Embedding of Graphs: Unsupervised Inductive Learning via Ranking.

AAAI 2018 | **Bojchevski A**, Günnemann S. Bayesian Robust Attributed Graph Clustering: Joint Learning of Partial Anomalies and Group Structure.

Bioinf. 2018 | Cejuela JM, Vinchurkar S, ..., **Bojchevski A**, ..., Rost B. LocText: relation extraction of protein localizations to assist database curation.

KDD 2017 | **Bojchevski A**, Matkovic Y, Günnemann S. Robust Spectral Clustering for Noisy Data: Modeling Sparse Corruptions Improves Latent Embeddings.

Munich, October 12, 2020