

# Aleksandar Bojchevski

Winzererstr. 174 – 80797 Munich – Germany

☎ +49 (176) 4360 3124 • ✉ aleksandar.bojchevski@gmail.com  
🌐 www.kdd.in.tum.de/bojchevski • 🐦 abojchevski • 🌐 abojchevski

## Education

- 2016 – now **Ph.D. Candidate**, *Technical University of Munich*  
Thesis: "Machine Learning on Graphs in the Presence of Noise and Adversaries". Focus on adversarial examples, representation learning, (deep) generative models, and anomaly detection.
- 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
- 2012 *Innovation Academy*: Microsoft .NET 4: Web App. Development and Accessing Data

## 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 2<sup>nd</sup> place, 20th National competition in Informatics, Skopje

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## 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 '16, WWW '17, ICDM '18, KDD '19, DLG '19, GEM '19  
Organization Macedonian National Competition in Informatics 2012 & 2013

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## Open source software

g2g/rsc/... **Author.** Code on GitHub (<https://github.com/abojchevski>) accompanying several publications: Gaussian node embeddings, 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.

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## Languages

Macedonian	Native language	
English	Bilingual proficiency	TOEFL iBT 114/120
German	Intermediate	B1 level (CEFR)

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## Selected publications

NeurIPS 2019 **Bojchevski A**, Günnemann S. Certifiable Robustness to Graph Perturbations.  
MLG 2019 **Bojchevski A**, Klicpera J, Perozzi B, Blais M, Kapoor A, Lukasik M, Günnemann S. Is PageRank All You Need for Scalable Graph Neural Networks?  
ICML 2019 **Bojchevski A**, Günnemann S. Adversarial 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.  
Bioinf. 2017 Cejuela JM, **Bojchevski A**, Uhlig C, Bekmukhametov R, Kumar Karn S, ..., Rost B. nala: text mining natural language mutation mentions.



Munich, September 23, 2020