Dan Graur

Personal Data

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repositories:	GitHub & BitBucket

Work Experience

Nov 2019 - Present	**Research Assistant** **ETH Zürich, Switzerland** Researching Systems for ML and Databases within the Systems Group at ETH Zürich. Supervision: Prof. Dr. Gustavo Alonso and Prof. Dr. Ana Klimovic
Jun 2022 - Sep 2022	**Research Intern** **Google, Mountain View, USA** Part of the tf.Data team. Worked on evaluating the tf.Data Service framework. Designed and wrote a paper around the evaluation. Paper is currently in review.
Jun 2020 - Sep 2020	**Software Engineering Intern** **Google Brain, Switzerland** Worked in the Flax team where I implemented RetinaNet as an Object Detection model. I worked with Jax, Flax and TensorFlow and the Google Cloud Platform.
Apr 2018 - Oct 2019	**Software Developer** **Blockchain Lab, The Netherlands** Research and (remote) Software Development on the Open Source: Trustchain and the Tribler ecosystem. Worked in the Python programming language.
Nov 2016 - Jul 2017	**Student Researcher** **The Technical University of Cluj-Napoca, Romania** Worked in the Knowledge Engineering Group. Developed novel ML approaches for Multiple Instance Learning. Worked with Spark, Hadoop, Zeppelin, and Scala.
Jul 2016 - Aug 2016	**Intern** **Telenav Software, Romania** Implemented two new features in C++ for the navigational Scout application, twice the workload that is expected from interns.

Education

2019 - Present	**PhD Student at ETH Zürich, Switzerland** PhD Candidate within the Systems Group at ETH Zürich.
2018 - 2019	**Exchange and MSc Thesis at ETH Zürich, Switzerland** MSc Thesis Topic: Distribution Optimization of Large Scale Machine Learning.
2017 - 2019	**MSc in Computer Science at Delft University of Technology, The Netherlands** Data Science Track | MSc Thesis: **9 out of 10**. GPA: **8.5 out of 10**.
2013 - 2017	**BSc in Computer Science at The Technical University of Cluj-Napoca, Romania** BSc Thesis: **10 out of 10**. GPA: **9.6 out of 10** (3^{rd} out of 120). 240 ECTS

Publications

2022	**Graur, D.**, Aymon, D., Kluser, D., Albrici, T., Thekkath, C. and Klimovic, A., *Cachew: Machine Learning Input Data Processing as a Service*, 2022, Proceedings of the USENIX Annual Technical Conference (ATC)
2022	**Graur, D.**, Müller I., Proffitt M., Fourny G., Watts G. T., and Alonso G., *Evaluating Query Languages and Systems for High-Energy Physics Data*, 2022, Proceedings of the VLDB Endowment

2021	**Graur, D.**, Bruno, R. and Alonso, G., *Specializing Generic Java Data Structures*, 2021, 18th ACM International Conference on Managed Programming Languages & Runtimes
2021	**Graur, D.**, Aymon, D., Thekkath, C. and Klimovic, A., *Machine Learning Input Data Processing as a Service*, 2021, Eurosys Doctoral Workshop 2021
2021	**Graur, D.**, Bruno, R., Bischoff, J., Rieser, M., Scherr, W., Hoefler, T. and Alonso, G., *Hermes: Enabling efficient large-scale simulation in MATSim*, 2021, Procedia Computer Science, 184, pp.635-641.
2019	Rellermeyer J. S., Khorasani S. O., **Graur D.** and Parthasarathy A., *The Coming Age of Pervasive Data Processing*, 2019, 18th International Symposium on Parallel and Distributed Computing (ISPDC), Amsterdam, 2019
2018	**Graur D.** , Maris R. A., Potolea R., Dinsoreanu M. and Lemnaru C., *Complex Localization in the Multiple Instance Learning Context*, 2018, New Frontiers in Mining Complex Patterns. Springer International Publishing, Cham, 93–106

Awards and Honors

Feb 2019 - Jul 2019	**IDEA League Research Grant** Research grant awarded for promising projects developed within the IDEA League.
Sep 2017 - Aug 2019	**Excellence Scholarship from Delft University of Technology** Two year scholarship awarded to academically excellent students.
2013 - 2017	**Merit Scholarship from The Technical University of Cluj-Napoca** Best possible scholarship awarded based on the academic excellence.

Computer Skills

Languages:	Python, Java, C/C++
Topics:	Distributed and Large Scale Systems, Machine Learning, Deep Learning
Operating Systems:	Linux, Windows, macOS

Languages

English:	Proficient (C2) - 2012 Cambridge Certificate in Advanced English - Grade A
German:	Intermediate (B1)
French:	Intermediate (B1)
Romanian:	Native