

Julius Gonsior

RESEARCH ASSISTANT @ TU DRESDEN, DATABASE SYSTEMS GROUP

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Skills

Experienced With	Machine Learning, NLP, Transformer-models, Clustering, Data Mining, Neural Networks, Time-Series, Semantic Web, Softw Testing
Programming Languages	Python, Java, Haskell, PHP, JavaScript, Prolog, Sparql, SQL, LaTeX
Frameworks	Pytorch, Tensorflow, Keras, Tensorflow, scikit-learn, weka, Flask, Vue.js, AngularJS, HTML5, LESS, SASS, Selenium
Languages	German, English, Swedish

Experience

Database Research Group @ TU Dresden

Dresden, Germany

DOCTORAL RESEARCHER

Jul. 2019 - now

- Research focus: combining Active Learning and Weak Supervision
- Teaching Experience
 - Information Retrieval (2019, 2020, 2021, 2022, 2023, 30-100 students), teaching assistant + lecturer (Naive bayes, SVM, Text Classification), implemented Jupyter-notebook based practical exercises, since 2023 main lecturer
 - Scalable Data Engineering (2021, 2022, 2023, 150-200 students), lecture about LSTM and Text Classification
 - Scalable Data Management (2020, 2021, 2022, 40 students), teaching assistant
 - Database Foundations (2021, 350 Students), transition of teaching materials to online-course, creating of lab group practical exercises
 - Information Retrieval Lab (2022, 15 students), Topic Clickbait Spoiling as part of the SemEval Shared Task Clickbait
 - Big Data Group Project (2023, 20 students), Topic was on Mining an Active Learning Benchmark
 - Advanced Web Programming Lab (2020, 2021, 2022, 5-15 students), Development of an Active Learning based Annotation Web-Application or an document management software with an
- Student Mentoring
 - 16 Bachelor Thesis
 - 11 Master+Diploma Thesis
 - 11 Other Thesiss Research Projects
- Team lead of the project "LegAL", funded by the Federal Ministry of Education and Research with the development program for future IT executives "Software Campus"
- Associate member of the DFG-funded Research Training Group "Role-based Software Infrastructures for continuous-context-sensitive Systems"
- Invited Speaker @ SAP about "State-of-the-Art Neural Information Retrieval using Transformer-based Language Models"
- Won Hybrid Team Award@Hackzurick 2020, the largest Hackathon in Europe
- Participated in Soft-Skill-Workshops covering:
 - Rhetoric, Presentation, Vocal Training, Body Language
 - Supervising students and giving Feedback in an academic environment
 - First-Aid Course for Mental Health
 - Leadership (Conflict Solving, Negotiation, Leadership Styles, Project Managing, Coaching Leadership, Mediating, ...)
 - English for professional Communication
 - Agile Project Management
 - Mindful-based Stress Handling

Avantgarde Labs GmbH

Dresden, Germany

STUDENT ASSISTANT

Oct. 2018 - Jul. 2019

- Cooperation for final diploma thesis about "Feature-based Classification of Time Series datasets with machine learning"

LogMeIn

Dresden, Germany

WORKING STUDENT

Feb 2018 - Aug 2018

- Cooperation for thesis "Großer Beleg" about "Analysis and Classification of Time Series for Quality Assurance"

Research Group Knowledge-Based Systems by Prof. Dr. Markus Krötzsch

TU Dresden, Germany

STUDENT RESEARCH ASSISTANT

Oct 2016 - Jan 2018

- Analysis of Wikidata SPARQL query logs, separation of robotic from organic traffic, and insights about used query features and structure
- Code can be found on github.com/Wikidata/QueryAnalysis

Moravio S.r.o.

Ostrava, Czech Republic

STUDENT TRAINEE

Aug 2016 - Sep 2016

- Linux Server Administration
- Development of multiple WordPress based E-Commerce systems

FSD Fahrzeugsystemdaten GmbH

STUDENT TRAINEE

- Development of multiple in-house web applications for big data analysis with Java and PHP
- Migration of huge MySQL databases to PostgreSQL
- First experience with basic data analysis

Dresden, Germany

Apr 2014 - Jul 2015

ITC AG

UNIVERSITY PROJECT IN COOPERATION WITH ITC AG

- Comparison of five different Java Web Frameworks, I have specialized myself in Spring, Hibernate and JQuery

Dresden, Germany

Oct 2013 - Jan 2014

Education

Technische Universität Dresden

DIPLOMA COMPUTER SCIENCE

- Received Scholarship Deutschlandstipendium
- Development of AI for the Angry Birds AI Competition using Reinforcement Learning
- Minor in Mathematics

Dresden, Germany

Oct 2012 - Jul. 2019

Linköping University

ERASMUS EXCHANGE YEAR

- Specialisation in Machine Learning and Data Mining

Linköping, Sweden

Aug 2015 - Jun 2016

Extracurricular Activity

Team AufeinanderAchten

WORKSHOP FACILITATOR, PART OF STRATEGY-TEAM

- AufeinanderAchten provides workshops for everyone with the goal to enable everyone to be able to detect mental health problems in others and provide necessary first-aid
- Next to facilitating workshops I help AufeinanderAchten in restructuring itself as a legally officially acknowledged non-profit organization in Germany

Dresden, Germany

Jan 2023 - now

Erasmus Student Network

LOCAL PRESIDENT@DRESDEN, CHAIRING TEAM@NATIONAL ASSEMBLY, ALUMNI COUNCIL, TRAINER

- ESN is a non-profit international student organisation where local students help international exchange students during their exchange semesters
- Part of local board for six mandates between 2017 and 2021, holding different roles including president
- Head of Organization for 4-day long national assembly of ESN Germany in Dresden 2019
- Four times Main Chair of National Assembly of ESN Germany
- Trainer at national ESN events about chairing meetings, keeping members of an NGO happy and motivated, or attracting new members
- Since 2021 I'm part of the elected alumni council board and are responsible to mediate conflicts in the German ESN network
- By doing I learned a lot about leadership and management for a diverse group of people with different skill sets

Dresden, Germany

Oct 2016 - Feb 2023

Fachschaftsrat Informatik TU Dresden

ELECTED STUDENT REPRESENTATIVE

- Part of elected student council
- Organized couple of events
- Mainly responsible for PR

Dresden, Germany

Oct 2014 - Sep 2015

University Athletic Trainer

ORIENTEERING

- Since 2005 I practise Orienteering
- Attended several national championships as well as the German university championships
- in 2018 and 2019 I was an athletic trainer for the beginners course at TU Dresden

Dresden, Germany

2018 - 2019

Publications

Sabrina Spellman at SemEval-2023 Task 5: Discover the Shocking Truth Behind this Composite Approach to Clickbait Spoiling!

Simon Birkenheuer, Jonathan Drechsel, Paul Justen, Jimmy Phlmann, Julius Gonsior, Anja Reusch

Proceedings of the The 17th International Workshop on Semantic Evaluation (SemEval-2023), 2023

Digitalisierung in der Werkstoffprüfung

Jörg Bretschneider, Antje Zösch, Gritt Ott, Solveig Hausmann, Julius Gonsior, Florian Hauer, Uwe Naumann, Roman Scherbaum, Martina Zimmermann

Digitalisierung der Arbeitswelt im Mittelstand 3: Ergebnisse und Best Practice des BMBF-Forschungsschwerpunkts "Zukunft der Arbeit: Mittelstand--innovativ und sozial", 2023

- Mr-fosdick at semeval-2023 task 5: Comparing dataset expansion techniques for non-transformer and transformer models: Improving model performance through data augmentation**
 Christian Falkenberg, Erik Schönwälder, Tom Rietzke, Chris-Andris Görner, Robert Walther, Julius Gonsior, Anja Reusch
Proceedings of the The 17th International Workshop on Semantic Evaluation (SemEval-2023), 2023
- Comparing and Improving Active Learning Uncertainty Measures for Transformer Models**
 Julius Gonsior, Christian Falkenberg, Silvio Magino, Anja Reusch, Claudio Hartmann, Maik Thiele, Wolfgang Lehner
European Conference on Advances in Databases and Information Systems, 2023
- An empirical study on the robustness of active learning for biomedical image classification under model transfer scenarios**
 Tamás Janusko, Julius Gonsior, Maik Thiele
European Conference on Advances in Databases and Information Systems, 2023
- ALWars: Combat-Based Evaluation of Active Learning Strategies**
 Julius Gonsior, Jakob Krude, Janik Schönfelder, Maik Thiele, Wolfgang Lehner
European Conference on Information Retrieval, 2022
- ImitAL: Learned Active Learning Strategy on Synthetic Data**
 Julius Gonsior, Maik Thiele, Wolfgang Lehner
International Conference on Discovery Science, 2022
- Pre-trained web table embeddings for table discovery**
 Michael Günther, Maik Thiele, Julius Gonsior, Wolfgang Lehner
Fourth Workshop in Exploiting AI Techniques for Data Management, 2021
- Active Learning for Spreadsheet Cell Classification.**
 Julius Gonsior, Josephine Rehak, Maik Thiele, Elvis Koci, Michael Günther, Wolfgang Lehner
EDBT/ICDT Workshops, 2020
- Weakal: Combining active learning and weak supervision**
 Julius Gonsior, Maik Thiele, Wolfgang Lehner
Discovery Science: 23rd International Conference, DS 2020, Thessaloniki, Greece, October 19--21, 2020, Proceedings 23, 2020
- Xlindy: Interactive recognition and information extraction in spreadsheets**
 Elvis Koci, Dana Kuban, Nico Luettig, Dominik Olwig, Maik Thiele, Julius Gonsior, Wolfgang Lehner, Oscar Romero
Proceedings of the ACM Symposium on Document Engineering 2019, 2019
- Practical Linked Data Access via SPARQL: The Case of Wikidata.**
 Adrian Bielefeldt, Julius Gonsior, Markus Krötzsch
LDOW@ WWW, 2018
- Getting the most out of Wikidata: semantic technology usage in Wikipedia's knowledge graph**
 Stanislav Malyshev, Markus Krötzsch, Larry González, Julius Gonsior, Adrian Bielefeldt
The Semantic Web--ISWC 2018: 17th International Semantic Web Conference, Monterey, CA, USA, October 8--12, 2018, Proceedings, Part II 17, 2018