

Daniele Gadler

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Personal Information

Born on March 5, 1995 in Trento, Italy. Italian citizen.

Education

- September 2017 – October 2019: **Scuola Superiore Sant'Anna and University of Pisa**. TeCIP, Department of Computer Science. Master's in Computer Science and Networking. 110 cum laude. GPA: 29.74/30.00.
- October 2016 – July 2017: **Technische Universität Kaiserslautern**. Department of Computer Science. Bachelor's in Computer Science. Exchange Student through the Erasmus+ program. GPA: 1.63/4.00.
- October 2014 – July 2017: **Free University of Bolzano-Bozen**. Faculty of Computer Science. Bachelor's in Computer Science & Engineering. Graduation grade: 106/110.

Work Experience

- October 2019 – present: **Data Scientist. Südtiroler Informatik AG**. Bolzano, Italy.
 - Creation of Proof-of-Concept (PoC) prototypes leveraging machine learning and cloud technology.
 - Coordination of machine learning projects according to the needs of the Autonomous Province of Bolzano
- July – September 2018: **Research Data Scientist. Free University of Bolzano-Bozen**. Faculty of Computer Science.
 - Development of a distributed and parallel tool for analyzing logs of the ALMA observatory to identify system errors and proposing system optimizations through Hidden Markov Models modelling of semi-structured logs.
- February – March 2018: **Research Data Scientist. Free University of Bolzano-Bozen**. Faculty of Computer Science.
 - Development of an automatized tool for the creation of Hidden Markov Models based on logs of developers' interactions with the Visual Studio IDE.
- July 2017 – September 2017: **Research Assistant at the Technische Universität Kaiserslautern**. Department of Computer Science. Distributed Computer Systems Groups (DISCO).
 - Theoretical and experimental comparison of state-of-the-art Wi-Fi devices fingerprinting techniques with physical-layer features.
- April 2016 – September 2016: **Tutor for the "Advanced Programming" Course. Free University of Bolzano-Bozen**. Faculty of Computer Science.
 - Support for students attending the "Advanced Programming" course in carrying out assignments, deepening course content and preparing for the exam. Focus on the "Java" programming language.
- February – March 2016: **Internship at Mullen Lowe Profero. Beijing, China**
 - Development of websites' plugins, drafting and implementation of test plans and code. Organization of distributed websites' migrations and code refactoring.
- March – December 2015: **Research Fellow. Free University of Bolzano-Bozen**. Faculty of Computer Science.
 - Development of a distributed cloud system for developing countries based on Raspberry-PI mini-computers. Identification of issues and changes responsible for energy consumption in ART Android Virtual Machine.
- June 2014 – March 2015: **Junior Programmer, Flying Squirrel Entertainment**.
 - Part of the development team for the "Battle Cry of Freedom" videogame. www.fsegames.eu
- July – August 2013: **Summer Research Intern, FBK. Webvalley. Castello di Fiemme (TN)**.
 - Creation of a 3D NanoWebGIS interface for associating 2D/3D bioimages with mathematical models to identify changes in cells.

Publications:

- “The Impact of Recurrent Neural Network Quantization on Federated Learning”. Master’s thesis for the MSc in Computer Science and Networking. University of Pisa. October 2019.
- “Mining Logs to Model the Use of a System”. **ACM/IEEE ESEM '17**. International Symposium on Empirical Software Engineering and Measurement. Toronto, Canada. November 2017.
- “Bringing the Cloud to Rural and Remote Areas via Cloudlets”. **ACM DEV '16**. Proceedings of the 7th Annual Symposium on Computing for Development. Nairobi, Kenya. November 2016.

Languages:

Self-assessment <i>European level (*)</i>	Understanding				Speaking				Writing		
	Listening		Reading		Spoken interaction		Spoken production				
		Mother-tongue		Mother-tongue		Mother-tongue		Mother-tongue		Mother-tongue	
	Italian										
	English	C2	Proficiency	C2	Proficiency	C2	Proficiency	C2	Proficiency	C2	Proficiency
	German	C1	Advanced	C2	Advanced	C2	Advanced	C1	Advanced	C1	Advanced
Chinese	A2	Elementary	B1	Elementary	B1	Elementary	B1	Elementary	A2	Elementary	

Awards and Grants:

- 2018. **Best Student Performance Award - MSc in Computer Science and Networking. TeCIP, Scuola Superiore Sant’Anna**: Selected among the students of the Master in Computer Science and Networking in the academic year 2017-2018 for best grades’ average (GPA) and number of exams passed.
- 2016-2017. **Erasmus+ Scholarship**: selected at the Faculty of Computer science of the Free University of Bolzano-Bozen for one year abroad at the Technische Universität Kaiserslautern for academic achievements and motivation.
- 2015. **CRCC Asia Italy Scholarship Award**: selected among more than 400 candidates in Italy for an internship in China for academic achievements, technical competence and motivation.

Skills:

Personal Skills:

- **Dedication and commitment**: acquired by working on research projects throughout my academic career, and carrying out weekly assignments during my time at the university.
- **Adaptability**: acquired by working in a completely new environment in China as well as studying in German as an Italian mother-tongue at the Technische Universität Kaiserslautern.

Organisational Skills

- **Teamwork attitude**: Acquired by working as an intern at Mullen Lowe Profero, within research project groups and during group projects at university.
- **Leadership**: acquired by leading student group projects at the Free University of Bolzano-Bozen, at the Technische Universität Kaiserslautern and at the University of Pisa.

Technical skills

- **Data Science programming**: Good knowledge of Python with Numpy, Pandas, Keras, PyTorch; R; SQL; SAS
- **Machine Learning theory**: Acquired from scientific articles, books, courses “Data Mining” and “Machine Learning” from the University of Pisa and “Neural Networks” from Scuola Superiore Sant’Anna.
- **Other skills**: Java, Javascript, C#, Cloud computing with Microsoft Azure.

Relational Skills:

- Sense of Humor
- Presenting

Language Certificates:

- **Zertifikat für Zweisprachigkeit der Provinz von Bozen**. German and Italian C1 Level.
- **Certificate of Advanced English (CAE)**. University of Cambridge. Grade A – C2 English Level

I hereby authorize the use of my personal data in accordance to the GDPR 679/16 - "European regulation on the protection of personal data".

Giulio Danile