

# Silvia Severini

## Curriculum Vitae

📍 Munich, Germany  
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🏠 [silviaseverini.github.io](https://silviaseverini.github.io)

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### Personal Information

Name Silvia  
Surname Severini  
Nationality Italian

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### Current

Nov 2019 - now **PhD Student in Natural Language Processing and Deep Learning**  
at "LMU - Centrum für Informations und Sprachverarbeitung (CIS)" -  
Munich, Germany  
**Advisor:** Prof. Dr. Hinrich Schütze  
Research, Teaching, Bachelor/Master Thesis supervision

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### Experience

Aug 2021 - Nov 2021 **Amazon - Applied Science Intern**  
at "Amazon Development Center" - Berlin, Germany  
**Advisors:** Dr. Omar Zaidan and Dr. Andreas Rücklé

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### Education

Oct 2017 - Oct 2019 **Master Degree in Computer Science**  
at "University of Pisa" - Dipartimento di informatica, Pisa, Italy  
Curriculum: Artificial Intelligence  
**Title of Thesis:** "Multi-task Deep Learning in the Software Development Domain"  
**Advisors:** Prof. Dr. Florian Matthes, Dr. Davide Bacciu and Ahmed Elnaggar  
**Grade:** 110/110 cum laude

Apr - Sept 2019: **Master thesis preparation**  
at "TUM – Technische Universität München", Munich, Germany

Oct 2018 - Sept 2019 **Erasmus+ exchange program**  
at "TUM – Technische Universität München", Munich, Germany

Sept 2014 - Oct 2017 **Bachelor Degree in Computer Science**  
at "University of Bologna" - Facoltà di Scienze Matematiche, Fisiche e Naturali, Bologna, Italy  
**Title of Thesis:** Studio preliminare per l'individuazione di regioni genomiche più diffuse tra le popolazioni  
**Advisor:** Prof. Dr. Danilo Montesi  
**Grade:** 110/110 cum laude

Sept - Dec 2016 **Overseas exchange student program**  
at "University of Minnesota-Twin Cities", Minneapolis, US

2009 - 2014 **Secondary School Diploma**  
at Istituto Tecnico Industriale Statale "Marconi", Jesi, Italy  
Grade: 100/100

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## Awards

1<sup>st</sup> place at the "Fujitsu AI-NLP Challenge" 2018  
with *Alessio Gravina, Federico Rossetto, Giuseppe Attardi*  
Project: "Cross-Attentive Convolutional Neural Network"

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## Publications

Elnaggar A., Ding W., Jones L., Gibbs T., Feher T., Angerer C., Severini S., Matthes F. and Rost B..

*"CodeTrans: Towards Cracking the Language of Silicon's Code Through Self-Supervised Deep Learning and High Performance Computing."* (Under review)

Silvia Severini\*, Viktor Hangya, Alexander Fraser, Hinrich Schütze

*"Combining Word Embeddings with Bilingual Orthography Embeddings for Bilingual Dictionary Induction."* In Proceedings of the 28th International Conference on Computational Linguistics, 2020.

Silvia Severini\*, Viktor Hangya\*, Alexander Fraser, Hinrich Schütze

*"LMU Bilingual Dictionary Induction System with Word Surface Similarity Scores for BUCC 2020."* In Proceedings of the 13th Workshop on Building and Using Comparable Corpora, 2020.

Alessio Gravina\*, Federico Rossetto\*, Silvia Severini\*, Giuseppe Attardi\*

*"Comparative Study of Models for Answer Sentence Selection."* In Proceedings of the Sixth Italian Conference on Computational Linguistics, 2019.

Alessio Gravina\*, Federico Rossetto\*, Silvia Severini\*, Giuseppe Attardi

*"Cross Attention for Selection-based Question Answering."* In 2nd Workshop on Natural Language for Artificial Intelligence, 2018.

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## Languages

**Italian:** mother tongue

**English:** professional working proficiency

**German:** B1 level

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## Certifications

English TOEFL iBT Test (September 2015): 90/120

Preliminary English Test (PET) (July 2013): passed with Merit

German B1: Deutsch für Uni und Alltag (SS 2021)

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## Technical skills

Good knowledge of Artificial Intelligence, Machine Learning and Deep Learning models, Natural Language Processing and Data Mining techniques

Good knowledge of Python, PyTorch Matlab and C++

Discrete knowledge of C#/C, Bash, SQL, HTML and Java