

Silvia Severini

Curriculum Vitae

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Current

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

Experience

Nov 2022 - Apr 2023 **Amazon - Research Science Intern**
(6 months) Alexa team - Natural Language Understanding
at "Amazon Development Center" - Turin, Italy
Advisors: Davide Bernardi, Dr. Elisa Reale, and Dr. Bianca Scarlini

Aug 2021 - Nov 2021 **Amazon - Applied Science Intern**
(4 months) Search team: Information Retrieval and NLP
at "Amazon Development Center" - Berlin, Germany
Advisors: Dr. Omar Zaidan and Dr. Andreas Rücklé

Education

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

Apr 2019 - 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
Thesis Title: "Studio preliminare per l'individuazione di regioni genomiche più diffuse tra le popolazioni"
Advisor: Prof. Dr. Danilo Montesi
Grade: 110/110 cum laude

Sept 2016 - 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

Awards

1st place for Russian at the "BUCC, 13th Workshop on Building and Using Comparable Corpora" 2020
with *Hangya V., Fraser A., Schütze H.*
Project: "LMU Bilingual Dictionary Induction System with Word Surface Similarity Scores for BUCC 2020."

1st place at the "Fujitsu AI-NLP Challenge" 2018
with *Gravina A., Rossetto F., Attardi G.*
Project: "Cross-Attentive Convolutional Neural Network"

Publications

- Imani A., Lin P., Kargaran A.H., **Severini S.**, Sabet M.J., Kassner N., Ma C., Schmid H., Martins A.F., Yvon F., Schütze H.
"Glot500: Scaling Multilingual Corpora and Language Models to 500 Languages." Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics..
 - Imani A.*, **Severini S.***, Sabet M., Yvon F., Schütze H.
"Graph-Based Multilingual Label Propagation for Low-Resource Part-of-Speech Tagging." In Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing.
 - **Severini S.**, Imani A., Dufter P., Schütze H.
"Towards a Broad Coverage Named Entity Resource: A Data-Efficient Approach for Many Diverse Languages." In Proceedings of the 13th Conference on Language Resources and Evaluation, 2022
 - **Severini S.**, Hangya V., Sabet M., Fraser A., Schütze H.
"Don't Forget Cheap Training Signals Before Building Unsupervised Bilingual Word Embeddings." In Proceedings of the 15th Workshop on Building and Using Comparable Corpora, 2022.
 - 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." (arXiv, 2021)
 - **Severini S.**, Hangya V., Fraser A., Schütze H.
"Combining Word Embeddings with Bilingual Orthography Embeddings for Bilingual Dictionary Induction." In Proceedings of the 28th International Conference on Computational Linguistics, 2020.
 - **Severini S.***, Hangya V.*, Fraser A., Schütze H.
"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.
 - Gravina A.*, Rossetto F.*, **Severini S.***, Attardi G.*
"Comparative Study of Models for Answer Sentence Selection." In Proceedings of the 6th Italian Conference on Computational Linguistics, 2019.
 - Gravina A.*, Rossetto F.*, **Severini S.***, Attardi G.
"Cross Attention for Selection-based Question Answering." In 2nd Workshop on Natural Language for Artificial Intelligence, 2018.
- (*Equal Contribution)

Languages

Italian: mother tongue

English: professional working proficiency

German: B1 level

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)

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.