



# Shibingfeng Zhang

## WORK EXPERIENCE

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### Research Fellow & PhD Student

**University of Bologna** [ 01/03/2025 – Current ]

City: Bologna | Country: Italy

Phd position under the FutureData4EU (Training Future Big Data Experts for Europe) project, funded by Marie Skłodowska-Curie Fellowship.

Supervisor: Professor Giovanni Colavizza

Research topic "Large Language Models for a personalised access to large cultural data"

Skills involved: Data Management, Natural Language Processing, Digital Humanities

### Research Fellow

**University of Bologna** [ 01/03/2024 – 01/03/2025 ]

City: Bologna | Country: Italy

Development and testing of a pipeline for Digital Linguistic Biomarker extraction.

Supervisors: Professor Gloria Gagliardi and Professor Fabio Tamburini

Skills involved: Natural Language Processing, Speech Signal Processing, Literature Review, Software Development, Statistical Analysis

## PUBLICATIONS

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[2025]

### **Cognitive Decline Detection using DLB Extraction Pipelines**

Paper published at IEEE International Conference on Acoustics, Speech and Signal Processing 2025.

[2024]

### **Text-Enhanced Zero-Shot Action Recognition: A training-free approach**

Conference paper published at the [27<sup>th</sup> International Conference on Pattern Recognition, 2024](#).

The paper explores the possibility of performing zero-shot action recognition using vision-language models, with a focus on different text augmentation methods utilizing large language models.

[2024]

### **Voice Activity Detection on Italian Language**

Conference paper published on the proceedings of the Tenth Italian Conference on Computational Linguistics

[2022]

### **AriEmozione 2.0: Identifying Emotions in Opera Verses and Arias**

Paper published on [Italian Journal of Computational Linguistics](#) vol. 8, n. 2 December 2022

[2021]

### **AriEmozione: Identifying Emotions in Opera Verses**

Paper published on proceedings of the Seventh [Italian Conference on Computational Linguistics](#).

## EDUCATION AND TRAINING

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### Master of Science in Language Science and Technology

*Department of Language Science and Technology, Saarland University* [ 30/09/2021 – 13/02/2024 ]

City: Saarbrücken | Country: Germany | Final grade: 1.6 | Thesis: Language-driven Action Recognition and Localization

Main subjects covered:

- Machine Translation
- Machine Learning
- Computational Semantics
- Statistics & Calculus & Linear Algebra

### Master of Arts in Specialized Translation

*Department of Interpreting and Translation, University of Bologna* [ 09/2019 – 13/07/2021 ]

City: Forlì | Country: Italy | Thesis: Emotion Identification in Italian Opera

Main subjects covered:

- Computational Linguistics
- Terminology and Terminology Database
- Translation Technologies and Computer-Assisted Translation

### Bachelor of Arts in Italian Language

*Sichuan International Studies University* [ 08/2014 – 07/2018 ]

City: Chongqing | Country: China

## DIGITAL SKILLS

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Python / Natural Languages Processing / Machine Learning / PyTorch / Academic Writing / Statistical Analysis  
/ Java / Speech Processing

## LANGUAGE SKILLS

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**Mother tongue(s):** Chinese

**Other language(s):**

### English

**LISTENING C2 READING C2 WRITING C1**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C2**

### Italian

**LISTENING C2 READING C2 WRITING C1**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C2**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## HONOURS AND AWARDS

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[ 2024 ] University of Bologna, Italy & Karlsruhe Institute of Technology, Germany

### International Semantic Web Research Summer School Grant

Grant for free participation in International Semantic Web Research Summer School, a one-week program featuring lectures and group projects focused on Knowledge Graphs and Generative AI

[ 2020 ] University of Bologna

### Unibo Action 2 scholarship

Merit-based scholarship offered by the University of Bologna for the entire duration of the master's program.

[ 2017 ] China Scholarship Council

**State Scholarship Fund for Visiting study**

Scholarship awarded under the State Scholarship Fund of China to pursue study in Italy as a visiting student in the discipline of Italian literature