

# Luca Ragazzi

*"Things don't happen by closing your eyes; help yourself and you will be helped."*

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## Bio

Luca Ragazzi, Ph.D. (2024), is a postdoctoral researcher at the University of Bologna. His research focuses on Natural Language Processing, with emphasis on LLM benchmarking and applications in low-resource regimes and high-impact domains such as law and biomedicine. He has co-authored 25+ peer-reviewed papers in leading international venues including ACL, EMNLP, AACL, and ICLR, and has reviewed ~90 submissions for top-tier conferences and journals. He serves as Reviewing Editor for Springer Nature and Area Chair for ACL Rolling Review, and acted as session chair at AACL 2023 (Washington, DC). He completed a research internship at EURECOM in France and has delivered invited lectures and co-supervised 15+ theses.

## Work Experience

- 2024 – now    ♦ **Postdoctoral Researcher**, University of Bologna (Cesena, Italy)  
**Supervisors:** Gianluca Moro, Antonella Carbonaro  
**Focus:** Natural Language Processing, Large Language Models, Benchmarking, Low-Resource Settings, Health  
**Funding:** DARE (Digital Lifelong Prevention)
- 2023    ♦ **Visiting Researcher**, EURECOM (Sophia Antipolis, France)  
**Supervisor:** Paolo Papotti  
**Focus:** Automatic Data Generation for Computational Fact-Checking
- 2022    ♦ **Scientific and Technological Consultant**, L&G Solution (Foggia, Italy)  
**Focus:** Retrieval-based Italian Chatbot
- 2018    ♦ **Web Designer & Developer (Internship)**, Librasoft (Forlì, Italy)  
**Focus:** Web Application Design and Development with React and Angular

## Education

- 2020 – 2024    ♦ **Ph.D. in Computer Science and Engineering**, University of Bologna (Cesena, Italy)  
**Grade:** 5/5 – Excellent  
**Topics:** Natural Language Processing, Text Summarization, Low-Resource Settings  
**Supervisor:** Gianluca Moro    **Tutors:** Marco Antonio Boschetti, Ilaria Bartolini  
**Thesis:** Abstractive Long-Input Summarization in Low-Resource Regimes: Methods, Datasets and Benchmarks
- 2018 – 2020    ♦ **M.Sc. in Computer Science and Engineering**, University of Bologna (Cesena, Italy)  
**Grade:** 110L/110 – Magna cum Laude  
**Supervisor:** Gianluca Moro  
**Thesis:** Abstractive Summarization on Legal Case Reports: New State-of-the-art Solutions with Transformer-based Language Models







## Education (continued)

- 2015 – 2018    ♦ **B.Sc. in Computer Science and Engineering**, University of Bologna (Cesena, Italy)  
Supervisor: Mirko Viroli  
Thesis: Design and Development of an Offline Web Application with Angular Service Worker and IndexedDB
- 2010 – 2015    ♦ **High School Diploma**, Liceo Scientifico Fulcieri Paulucci di Calboli (Forli, Italy)


## Research Publications

**Publications:** 28    **Citations:** 451    **h-index:** 11 (Google Scholar, April 2026)

### Journal Articles

- [1] A. Cocchieri, G. Frisoni, F. Zangrillo, L. Ragazzi, M. M. Galindo, G. Tagliavini, and G. Moro, “OpenBioNER-v2: A Suite of Lightweight Models for Zero-Shot Medical Named Entity Recognition via Type Descriptions,” *Expert Systems with Applications*, 2026.
- [2] G. Frisoni, L. Ragazzi, D. Cohen, G. Moro, A. Carbonaro, and C. Sartori, “Abstractive Summarization through the Prism of Decoding Strategies,” *Neural Networks*, 2026.  DOI: 10.1016/J.NEUNET.2025.108249.
- [3] G. Moro, L. D. M. Magnani, and L. Ragazzi, “Legal Lay Summarization: Exploring Methods and Data Generation with Large Language Models,” *Artificial Intelligence Review*, 2026.  DOI: 10.1007/S10462-025-11392-7.
- [4] L. Ragazzi, G. Frisoni, G. Moro, P. Italiani, L. Molfetta, and V. Folin, “COMMA: A Multi-Task and Multi-Lingual Dataset of Constitutional Verdicts,” *Artificial Intelligence and Law*, 2026.
- [5] P. Italiani, G. Moro, and L. Ragazzi, “Clash-of-Leges: A Bilingual Dataset for Conflict Detection and Explanation in Statutory Law,” *Expert Systems with Applications*, 2025.
- [6] P. Italiani, G. Moro, and L. Ragazzi, “Enhancing Legal Question Answering with Data Generation and Knowledge Distillation from Large Language Models,” *Artificial Intelligence and Law*, 2025.
- [7] P. Italiani, L. Ragazzi, and G. Moro, “Read Between the Tokens: Differentiable Text Pruning via Perturbed Top-k Selection,” *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 2025.
- [8] L. Ragazzi, G. Moro, S. Guidi, and G. Frisoni, “LAWSUIT: a large expert-written summarization dataset of italian constitutional court verdicts,” *Artificial Intelligence and Law*, 2025.  DOI: 10.1007/S10506-024-09414-W.
- [9] L. Ragazzi, G. Moro, L. Valgimigli, and R. Fiorani, “Cross-Document Distillation via Graph-based Summarization of Extracted Essential Knowledge,” *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 2025.  URL: <https://ieeexplore.ieee.org/abstract/document/10740791>.
- [10] G. Moro, N. Piscaglia, L. Ragazzi, and P. Italiani, “Multi-Language Transfer Learning for Low-Resource Legal Case Summarization,” *Artificial Intelligence and Law*, 2023.  DOI: 10.1007/s10506-023-09373-8.
- [11] G. Moro and L. Ragazzi, “Align-Then-Abstract Representation Learning for Low-Resource Summarization,” *Neurocomputing*, 2023.  DOI: 10.1016/J.NEUCOM.2023.126356.
- [12] G. Moro, L. Ragazzi, L. Valgimigli, G. Frisoni, C. Sartori, and G. Marfia, “Efficient Memory-Enhanced Transformer for Long-Document Summarization in Low-Resource Regimes,” *Sensors*, 2023.  DOI: 10.3390/S23073542.

### Conference Proceedings

- [13] A. Cocchieri, L. Ragazzi, G. Tagliavini, and G. Moro, “LLMs (Almost) Never Abstain Under Medical Uncertainty,” in *ACL*, 2026.
- [14] A. Cocchieri, L. Ragazzi, G. Tagliavini, and G. Moro, “ReMedQA: Are We Done With Medical Multiple-Choice Benchmarks?” In *EACL*, 2026, pp. 2706–2738.  DOI: 10.18653/v1/2026.eacl-long.124.

- [15] P. Italiani, D. Gimeno-Gómez, L. Ragazzi, G. Moro, and P. Rosso, “MemeWeaver: Inter-Meme Graph Reasoning for Sexism and Misogyny Detection,” in *EACL*, 2026, pp. 2120–2134. [DOI: 10.18653/v1/2026.findings-eacl.111](#).
- [16] L. Molfetta, A. Cocchieri, L. Ragazzi, I. Bartolini, M. Patella, and G. Moro, “Sycophants in the Courtroom: Are LLMs Fragile to Juridical Authority and Evolving Legal Standards?” In *ACL*, 2026.
- [17] A. Cocchieri, L. Ragazzi, P. Italiani, G. Tagliavini, and G. Moro, ““What do you call a dog that is incontrovertibly true? Dogma”: Testing LLM Generalization through Humor,” in *ACL*, 2025, pp. 22 922–22 937. [DOI: 10.18653/v1/2025.acl-long.117](#).
- [18] A. Cocchieri, L. Ragazzi, G. Tagliavini, L. Tordi, A. Carbonaro, and G. Moro, “Can Large Language Models Win the International Mathematical Games?” In *EMNLP*, 2025, pp. 9645–9671. [DOI: 10.18653/v1/2025.emnlp-main.488](#).
- [19] S. Fantazzini, G. Frisoni, G. Moro, L. Ragazzi, M. Ciccioni, and C. Sartori, “Magic Mirror on the Wall, Which is the Fairest Prompt of All? A Survey on Automatic Prompt Learning,” in *ECAI*, 2025.
- [20] L. Molfetta, A. Cocchieri, S. Fantazzini, G. Frisoni, L. Ragazzi, and G. Moro, “FEAST: Retrieval-Augmented Multi-Hierarchical Food Classification for the FoodEx2 System,” in *ECAI*, 2025.
- [21] J.-F. Bussotti, L. Ragazzi, G. Frisoni, G. Moro, and P. Papotti, “Unknown Claims: Generation of Fact-Checking Training Examples from Unstructured and Structured Data,” in *EMNLP*, 2024, pp. 12 105–12 122. [DOI: 10.18653/v1/2024.emnlp-main.675](#).
- [22] G. Moro, L. Ragazzi, L. Valgimigli, F. Vincenzi, and D. Freddi, “Revelio: Interpretable Long-Form Question Answering,” in *ICLR (Tiny Papers)*, 2024. [URL: https://openreview.net/forum?id=fyvEJXsaQf](https://openreview.net/forum?id=fyvEJXsaQf).
- [23] L. Ragazzi, P. Italiani, G. Moro, and M. Panni, “What Are You Token About? Differentiable Perturbed Top-k Token Selection for Scientific Document Summarization,” in *ACL*, 2024, pp. 9427–9440. [DOI: 10.18653/v1/2024.FINDINGS-ACL.561](#).
- [24] G. Moro, L. Ragazzi, and L. Valgimigli, “Carburacy: Summarization Models Tuning and Comparison in Eco-Sustainable Regimes with a Novel Carbon-Aware Accuracy,” in *AAAI*, 2023, pp. 14 417–14 425. [DOI: 10.1609/AAAI.V37I12.26686](#).
- [25] G. Moro, L. Ragazzi, and L. Valgimigli, “Graph-Based Abstractive Summarization of Extracted Essential Knowledge for Low-Resource Scenarios,” in *ECAI*, 2023, pp. 1747–1754. [DOI: 10.3233/FAIA230460](#).
- [26] G. Moro, L. Ragazzi, L. Valgimigli, and L. Molfetta, “Retrieve-and-Rank End-to-End Summarization of Biomedical Studies,” in *SISAP*, 2023, pp. 64–78. [DOI: 10.1007/978-3-031-46994-7\\_6](#).
- [27] G. Moro and L. Ragazzi, “Semantic Self-Segmentation for Abstractive Summarization of Long Documents in Low-Resource Regimes,” in *AAAI*, 2022, pp. 11 085–11 093. [DOI: 10.1609/AAAI.V36I10.21357](#).
- [28] G. Moro, L. Ragazzi, L. Valgimigli, and D. Freddi, “Discriminative Marginalized Probabilistic Neural Method for Multi-Document Summarization of Medical Literature,” in *ACL*, 2022, pp. 180–189. [DOI: 10.18653/v1/2022.ACL-LONG.15](#).

## Academic Service

### Reviewing for Journals (36 papers)

- 2026
- ◇ Expert Systems with Applications (Q1)
  - ◇ ICT Express (Q1)
  - ◇ Applied Sciences (Q2)
  - ◇ Discover Computing (Q2)
  - ◇ BMC Emergency Medicine (Q1)
  - ◇ Multimedia Tools and Applications (Q1)
  - ◇ Engineering Applications of Artificial Intelligence (Q1)
  - ◇ Neurocomputing (Q1)
- 2025
- ◇ IEEE/ACM Transactions on Audio, Speech and Language Processing (Q1)

## Academic Service (continued)

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- ◇ Knowledge and Information Systems (Q<sub>2</sub>)
- ◇ Artificial Intelligence and Law (Q<sub>1</sub>) — 2 reviews
- ◇ Discover Computing (Q<sub>2</sub>)
- ◇ IEEE Transactions on Knowledge and Data Engineering (Q<sub>1</sub>)
- ◇ Expert Systems with Applications (Q<sub>1</sub>) — 2 reviews
- ◇ Regenerative Biomaterials (Q<sub>1</sub>)
- ◇ Machine Learning (Q<sub>1</sub>) — 3 reviews
- ◇ Language Resources and Evaluation (Q<sub>1</sub>)
- ◇ Scientific Reports (Q<sub>1</sub>) — 4 reviews
- ◇ PeerJ Computer Science (Q<sub>1</sub>)
- ◇ International Journal of Data Science and Analytics (Q<sub>2</sub>) — 2 reviews
- ◇ Results in Engineering (Q<sub>1</sub>)
- 2024 ◇ Computers, Materials & Continua (Q<sub>2</sub>)
- ◇ Natural Language Processing Journal (TBD)
- ◇ Semantic Web Journal (Q<sub>2</sub>)
- ◇ Artificial Intelligence and Law (Q<sub>1</sub>)
- ◇ Neurocomputing (Q<sub>1</sub>)
- 2023 ◇ IEEE Transactions on Systems, Man and Cybernetics: Systems (Q<sub>1</sub>)
- 2020 ◇ Artificial Intelligence and Law (Q<sub>1</sub>)

## Reviewing for Conferences (53 papers)

- 2026 ◇ EMNLP (A\*) — 6 reviews
- ◇ ACL (A\*) — 4 reviews
- 2025 ◇ EACL (A) — 9 reviews
- ◇ ICLR (A\*) — 5 reviews
- ◇ EACL (A) — 2 reviews
- ◇ EMNLP (A\*) — 6 reviews
- ◇ ACL (A\*) — 5 reviews
- ◇ ESWC (A) — 3 reviews
- 2024 ◇ ICLR 2025 (A\*) — 3 reviews
- ◇ ISWC (A\*)
- ◇ ESWC (A)
- 2023 ◇ AAAI (A\*)
- ◇ ACM SAC (A)
- ◇ EMNLP (A\*) — 4 reviews
- ◇ NeurIPS (A\*)
- 2022 ◇ AAAI (A\*)

## Chair Roles

- 2026 ◇ Area Chair — EMNLP (A\*)
- 2025 ◇ Area Chair — EACL (A)

## Academic Service (continued)

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2023 ◇ Session Chair — AAAI (A\*) — Washington, DC, USA

### Editorial Roles

2026 ◇ Guest Editor — Special Issue on NLP & Information Retrieval, Applied Sciences (Q2)

## Talks

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### Conference Presentations

- 2026 ◇ EACL, Rabat, Morocco (Oral)  
*“ReMedQA: Are We Done With Medical Multiple-Choice Benchmarks?”*
- 2025 ◇ ACL, Vienna, Austria (Poster)  
*“What do you call a dog that is incontrovertibly true? Dogma: Testing LLM Generalization through Humor”*
- 2024 ◇ EMNLP, Miami, Florida (Poster)  
*“Unknown Claims: Generation of Fact-Checking Training Examples from Unstructured and Structured Data”*
- 2023 ◇ AAAI, Washington DC, USA (Oral)  
*“Carburacy: Summarization Models Tuning and Comparison in Eco-Sustainable Regimes with a Novel Carbon-Aware Accuracy”*
- 2022 ◇ AAAI, Virtual (Poster)  
*“Semantic Self-Segmentation for Abstractive Summarization of Long Documents in Low-Resource Regimes”*

### Invited Talks

- 2025 ◇ *Legal Findings of LLMs: a Summary of our Recent Works*  
Workshop on Large and Small Language Models, University of Bologna (November 20, 2025)
- 2024 ◇ *Retrieval-based Chatbot*  
B.Sc. course “Data Intensive Applications”, University of Bologna (April 3, 2024)
- 2023 ◇ *Automatic Text Summarization: from Theory to Practice*  
M.Sc. course “Data Mining, Text Mining and Big Data Analytics”, University of Bologna (December 15, 2023)
- ◇ *Long Document Summarization in Low-Resource Regimes*  
M.Sc. course “Data Mining, Text Mining and Big Data Analytics”, University of Bologna (October 18, 2023)
- ◇ *Retrieval-based Italian Chatbot*  
B.Sc. course “Data Intensive Applications”, University of Bologna (June 8, 2023)
- ◇ *Long and Multi-Document Abstractive Summarization in Low-Resource Regimes*  
EURECOM, Sophia Antipolis, France (March 21, 2023)
- 2022 ◇ *Long and Multi-Document Abstractive Summarization in Low-Resource Regimes*  
M.Sc. course “Data Mining”, University of Bologna (December 1, 2022)
- 2021 ◇ *Long Document Summarization in Low-resource Regimes with Applications in the Legal Domain*  
M.Sc. course “Data Mining”, University of Bologna (December 16, 2021)
- 2020 ◇ *Natural Language Processing for Automatic Text Summarization: an Overview*  
M.Sc. course “Data Mining”, University of Bologna (December 12, 2020)

## Research Affiliations & Projects

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### Participation in Research Groups

- 2020 – now    ♦ **UniBoNLP Research Group.** Member of the NLP group at the University of Bologna led by Prof. Gianluca Moro, working on LLMs and applied NLP for high-impact domains such as law and healthcare, contributing to 50+ publications in recent years.

### Research Projects

- 2024 – 2026    ♦ **DARE – Digital Lifelong Prevention (PNCooooo02).** National project funded by the Italian Ministry of University and Research (PNRR complementary plan), focusing on data-driven health promotion and prevention. Total funding: €124M.

## Teaching

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### Thesis Supervision

- 2025    ♦ *A Systematic Review on Automatic Prompt Learning*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Mario Ciccioni — Co-supervisor (with G. Frisoni, G. Moro)
- ♦ *Legal Lay Summarization: Exploring Techniques and Introducing the LegalEase Dataset*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Leonardo David Matteo Magnani — Co-supervisor (with G. Moro)
- ♦ *Tecniche di Machine Learning per la Gestione e il Monitoraggio delle Emissioni Odorigene negli Allevamenti Avicoli*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Francesco Filippini — Co-supervisor (with G. Moro)
- ♦ *Valutazione del Quoziente Intellettivo di Large Language Model Multimodali*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Eduard Toni Alexandru — Co-supervisor (with G. Frisoni, G. Moro)
- 2024    ♦ *Agriveritas: Chatbot Generativo per il Supporto Normativo allo Sviluppo dell'Agricoltura Sostenibile*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Jacopo Pesaresi — Co-supervisor (with L. Molfetta, G. Moro)
- ♦ *Benchmarking e Prompt Tuning di Large Language Model per la Generazione di Codice*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Luca Bighini — Co-supervisor (with G. Frisoni, G. Moro)
- 2023    ♦ *Neural Self-Supervised Information Retrieval: An Efficient and Effective Solution in Large Document Corpora*  
M.Sc. in Artificial Intelligence, University of Bologna  
Candidate: Samuele Marino — Co-supervisor (with L. Valgimigli, C. Casadei, G. Moro)
- ♦ *Explaining Generative Model for Long-form Question Answering with Reasoning Graph*  
M.Sc. in Artificial Intelligence, University of Bologna  
Candidate: Fabian Vincenzi — Co-supervisor (with L. Valgimigli, G. Moro)
- ♦ *Summarization Astrattiva di Lunghi Articoli Scientifici mediante Estrazione di Frammenti Rilevanti*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Filippo Di Pietro — Co-supervisor (with P. Italiani, G. Moro)
- ♦ *Survey on Few-Shot Summarization*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Emanuele Artegiani — Co-supervisor (with G. Frisoni, G. Moro)

## Teaching (continued)

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- ◇ *Graph Neural Network Benchmark per la Selezione di Contenuto Rilevante nella Low-Resource Summarization*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Riccardo Fiorani — Co-supervisor (with L. Valgimigli, G. Moro)
- ◇ *Sci-Lay: Un Nuovo Dataset per Long Document Summarization Scientifica e Divulgativa di Studi Biomedici*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Mattia Panni — Co-supervisor (with P. Italiani, G. Moro)
- ◇ *Generazione di Riassunti Fattuali Mediante Parsing Semantico*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Luca Grandi — Co-supervisor (with G. Frisoni, G. Moro)
- 2022 ◇ *Sviluppo di Metodi di Soft Labeling per la Multi-Document Summarization in Ambito Legale*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Luca Rubboli — Co-supervisor (with G. Moro)
- ◇ *Sviluppo di Retrieval-based Chatbot per l'Italiano con Transformer*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Luca Morlino — Co-supervisor (with G. Moro)
- ◇ *LAWSU-IT: Un Nuovo Dataset Giudiziario Italiano per Long Document Summarization con Baseline Estrattive e Astrattive*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Stefano Guidi — Co-supervisor (with G. Moro)
- 2021 ◇ *Sintesi Generativa Multi-documento con Discriminazione della Rilevanza Mediante Probabilità Marginale: Una soluzione Neurale End-to-End per la Letteratura Medica*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Davide Freddi — Co-supervisor (with G. Moro)
- ◇ *Abstractive Long Document Summarization: Studio e Sperimentazione di Modelli Generativi Retrieval-Augmented*  
B.Sc. in Computer Science and Engineering, University of Bologna  
Candidate: Veronika Folin — Co-supervisor (with G. Moro)

## Certifications

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- 2025 ◇ DeepLearning.AI — Finetuning Large Language Models 🌟
- ◇ Hugging Face — AI Agents Fundamentals 🌟
- 2022 ◇ DeepLearning.AI — NLP Specialization 🌟

## Skills

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- Programming ◇ Python, Java, Scala, JavaScript/TypeScript, Bash
- Machine Learning ◇ PyTorch, HuggingFace Transformers, TensorFlow, NumPy, Pandas
- Tools & Systems ◇ Git, Docker, Slurm, Linux
- Web Development ◇ Angular, Vue, HTML, CSS

## Extracurricular

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### Sports Activities

- 2026 ◇ **Bocce** — B Series
- 2025 ◇ **Bocce** — C Series
- 2024 ◇ **Bocce** — D Series
- 2004 – 2024 ◇ **Basketball** — Shooting Guard 🏀
- 2018 – 2020 ◇ **Scuba Diving** — Advanced (3 certifications)

### Sports Achievements

- 2024 ◇ **National Academic Bocce Championship** — 1st Place, Civitanova Marche, Italy
- 2023 ◇ **National Academic Bocce Championship** — 1st Place, Padova, Italy