

Curriculum Vitae et Studiorum

VITO WALTER ANELLI

October 14, 2026

Contents

1	Personal Information	1
2	Current Position	1
3	National Scientific Qualification	1
4	Education	1
5	Brief Description of Research Activity	1
6	Research Interests	2
7	Bibliometric Indicators	4
8	Research Awards	4
9	Academic and Institutional Service	5
9.1	Institutional Appointments	5
9.2	Membership of PhD Program Faculty Boards	5
9.3	PhD Supervision	5
9.4	Teaching in PhD Programs	6
9.5	Doctoral Consortium Mentoring	6
10	Invited Talks	6
10.1	Tutorial	7
11	Scientific Responsibilities in International Academic Events	7
11.1	General Chair / Organizer	7
12	International Collaborations and Teaching	8
12.1	Teaching Appointments at International Universities and Research Institutions	8
12.2	Teaching and Research Visits Abroad	8
12.3	Collaborations with National and International Research Institutions . .	9
13	Books and Book Chapters	9
13.1	Monographs	9
13.2	Book Chapters	9
14	Tutorials	10
15	Research Projects	10
15.1	Scientific Responsibility for Research Contracts	10
15.2	Scientific Responsibility for International Research Projects Awarded through Peer-Reviewed Competitive Calls	10
15.3	Other Research Activities	11
16	Service to the Scientific Community	12
17	Teaching	18
17.1	University Courses	18
17.2	Non-University Courses	20

18 References	21
18.1 Editor of International Books/Proceedings/Journals	21
18.2 International Journals, Books and Book Chapters	22
18.3 International Conferences	23
18.4 National Conferences	31
18.5 Master's Thesis	34
18.6 PhD Thesis	34

1 Personal Information

Current affiliation

Department of Electrical and Information Engineering (DEI)
Politecnico di Bari
via E.Orabona, 4 - 70125 Bari (Italy)

2 Current Position

since **01 January 2026** Associate Professor at Politecnico di Bari

3 National Scientific Qualification

since **30 July 2026** National Scientific Qualification for the position of Full Professor (I fascia), competition sector 09/H1 – SISTEMI DI ELABORAZIONE DELLE INFORMAZIONI (Information Processing Systems), obtained in the ASN 2023/2025 call (Directorate Decree No. 1796/2023). Valid from 30 July 2026 to 30 July 2038 (MUR certificate No. 50735, issued on 2 August 2026).

since **20 July 2026** National Scientific Qualification for the position of Full Professor (I fascia), competition sector 01/B1 – INFORMATICA (Informatics), obtained in the ASN 2023/2025 call (Directorate Decree No. 1796/2023). Valid from 20 July 2026 to 20 July 2038 (MUR certificate No. 50734, issued on 2 August 2026).

since **02 February 2022** National Scientific Qualification pursuant to Article 16 of Law 240/2010 for competition sector 09/IINF-05 (formerly 09/H1) – Information Processing Systems, for the position of Associate Professor, obtained on 02/02/2022.

4 Education

PhD with Doctor Europaeus certification Awarded with honors in Electrical and Information Engineering, Politecnico di Bari, February 2020. Academic discipline: ING-INF/05. Thesis title: *Knowledge-Enabled Recommender Systems in the Linked Data Era* [102]. The PhD thesis focuses on knowledge-based recommender systems, particularly semantic knowledge representation techniques.

Master's degree Awarded with a final grade of 110/110 cum laude in Computer Engineering, Politecnico di Bari, July 2016. Thesis title: *Approcci collaborativi alla raccomandazione basati su Linked Data* [101]. This work proposes a recommendation approach using knowledge extracted from Linked Data datasets.

5 Brief Description of Research Activity

My research has developed around the design and evaluation of systems for personalized access to information, with particular emphasis on **Recommender Systems**. It began with the study of hybrid models drawing on heterogeneous knowledge sources, such as **Linked Open Data (LOD)**, to improve recommendation accuracy and diversity. A significant contribution at this stage was the development of “knowledge-aware” matrix factorization techniques in which latent factors are made interpretable by linking them to explicit semantic features derived from **knowledge graphs**, thereby increasing the

transparency of recommendation. In parallel, an ongoing cross-cutting contribution has been the development of open-source evaluation frameworks (e.g., **Elliot**) intended to promote **experimental reproducibility** and enable fair, rigorous comparisons of models proposed by the research community.

Subsequently, my interests expanded to **Trustworthy Artificial Intelligence**. This research has examined how to assess and improve **fairness** in recommendation algorithms, proposing metrics that consider both consumers and item providers. I have also studied system **robustness**, investigating how semantic knowledge can be used to carry out adversarial (shilling) attacks and developing defenses to make models more resilient. Another direction concerns **privacy**, including the design of **federated recommender systems** that distribute computational costs while protecting sensitive user data, and the assessment of the impact of **data minimization**, required by regulations such as the GDPR, on the trade-off between accuracy and fairness. This work has adopted a **multi-objective** perspective, developing recommendation algorithms that balance traditional metrics such as accuracy against essential non-functional objectives, including fairness, diversity, and novelty, and manage the resulting complex trade-offs.

In recent years, I have also investigated the **impact of Large Language Models (LLMs)**. Studies have assessed whether and to what extent these models memorize public datasets commonly used for evaluation, a phenomenon that may undermine the generalizability of experimental results and **amplify existing biases**. I have examined the intrinsic nature of LLM-generated recommendations to determine whether they emerge from latent collaborative patterns or are mainly driven by semantic similarity between content items. I have also studied the **latent space of LLMs** to understand how these models encode real-world concepts, from facts to emotions, with the aim of assessing their internal knowledge and reliability.

6 Research Interests

My research primarily focuses on Recommender Systems and Trustworthy Artificial Intelligence. The goal is to develop algorithms and systems that are not only accurate but also fair, interpretable, robust, and respectful of user privacy. A central pillar is the use of Semantic Web technologies and Knowledge Graphs to enrich recommendation models, improve explainability, and address classic challenges such as cold start. This also encompasses recommender-system robustness, including the detailed study of adversarial attacks and the development of effective countermeasures. More recently, my work has explored the capabilities and limitations of Large Language Models (LLMs) in recommendation and user interaction, including data memorization and whether their recommendations are collaborative or content-based. Finally, User Modeling is a cross-cutting area aimed at adaptive, context-aware user-preference models that balance users' needs against business objectives.

The research topics on which I have focused throughout my academic career are listed below.

- **Trustworthy Artificial Intelligence: Fairness, Robustness, Explainability, and Privacy.**

A major part of my research is devoted to making AI systems, especially recommender systems, more reliable and aligned with human values and applicable regulations. This work addresses four principal directions (see [9, 33, 85, 41, 42, 43, 12, 44, 13, 17, 88, 89, 50, 4, 51, 18, 55, 58, 59, 54, 60, 61, 62, 63, 21, 66, 22, 67, 93, 94, 72]).

1. **Fairness:** Research on fairness focuses on measuring and mitigating biases that algorithms may learn and perpetuate. I developed frameworks for auditing fairness from both the consumer perspective (ensuring comparable recommendation

quality across user groups) and the provider perspective (ensuring fair exposure across item categories). This includes Generalized Cross-Entropy-based fairness metrics and counterfactual analysis of model biases. Of particular interest is the accuracy–fairness trade-off arising from data minimization practices such as those required by the GDPR.

2. **Robustness and Defense Against Adversarial Attacks:** This work seeks to understand and protect recommender systems against malicious manipulation. I investigated how external knowledge, in the form of knowledge graphs, can be exploited to launch semantic shilling attacks that are harder to detect than traditional attacks. I consequently developed and analyzed defense strategies, including adversarial training and approaches to make visual recommenders more robust through denoising, protecting them against manipulations of item images.
 3. **Explainability and Interpretability (XAI):** To open the “black box” of recommendation models, I developed methods that make their decisions more transparent. A key contribution consists of knowledge-aware recommendation models in which normally uninterpretable latent factors are constrained to encode explicit semantic concepts. This makes it possible to generate accurate recommendations and explain them in terms of item features. I also assessed the fidelity and consistency of post-hoc local explanation methods, such as LIME, applied to recommender systems.
 4. **Privacy and Federated Learning:** To address the growing need to protect user data, I explored decentralized learning architectures. I contributed to federated-learning-based recommender systems in which sensitive data remain on users’ devices. These systems were designed to be user-controlled and to optimize multiple criteria in a prioritized manner, enabling efficient privacy-aware learning.
- **Knowledge Graphs and Semantic Web for Recommender Systems** (for Linked Open Data and Knowledge-aware Recommender Systems see [26, 40, 11, 3, 45, 48, 90, 64, 5, 19, 52, 57, 92, 6] [36, 19, 51, 5, 51, 24, 25, 7, 69, 95, 74, 8, 97, 75, 98, 77, 78]; for Semantic Web, Ontologies, and Knowledge Representation see [23, 96, 80, 81, 82, 100, 83, 84])

The use of structured knowledge sources, such as Knowledge Graphs (KGs) and Linked Open Data (LOD), runs throughout my research. I have employed KGs to address several classic recommender-system challenges. Initially, they were used to enrich user and item profiles, mitigate cold start, and improve overall accuracy. I subsequently developed sparse feature-factorization techniques that directly integrate KGs into models, obtaining efficient and semantically rich latent representations. Beyond explainability, this integration has also proven important for inferring users’ decision-making processes and interpreting the latent spaces of complex models such as BERT by linking internal representations to real-world concepts.

- **Large Language Models (LLMs) for Recommendation** (see [31, 29, 30, 32, 35, 86])

My most recent research area critically examines and applies Large Language Models (LLMs) in recommender systems. The investigation has two main directions. First, I rigorously assess their capabilities and limitations: preliminary studies investigate memorization, namely whether LLMs tend to recall and reproduce parts of training datasets (e.g., MovieLens), potentially invalidating performance evaluations. Second, I examine the nature of their recommendations, asking whether suggestions

from an LLM such as ChatGPT are closer to content-based or collaborative filtering approaches by analyzing intra-list recommendation similarity. This research also explores probing LLM internal representations to reveal how complex information, such as sentiment and emotions, is encoded.

- **Interpretability of Latent Representations in Neural Models** (see [29, 30, 36, 45, 19, 90, 6])

This research goes beyond output explainability (XAI) to examine the intrinsic nature of latent representations learned by neural models. It focuses on “decoding” embeddings, the dense numerical vectors that constitute a model’s internal knowledge, to understand which real-world concepts they encode. This inquiry started with interpreting latent factors in recommendation models by constraining them to represent explicit semantic features from Knowledge Graphs. It then expanded to more complex language models, such as Masked Language Models (e.g., BERT) and generative Large Language Models (LLMs). In this setting, I develop probing techniques to determine whether and how their latent spaces capture complex information, including factual knowledge, semantic properties, sentiment, and emotions. The ultimate aim is to test whether models learn correct, robust concepts, laying the groundwork for more reliable AI systems whose inner workings, and not just outputs, can be verified.

- **Recommendation Algorithms, User Modeling, and Evaluation** (see [27, 28, 10, 34, 1, 37, 38, 39, 87, 14, 15, 16, 46, 47, 49, 91, 56, 53, 20, 65, 68, 70, 71, 73, 76, 99, 79, 2])

Underlying these interests is extensive work on the development and evaluation of recommendation algorithms. I contributed to models that consider additional dimensions, such as time and local or personalized popularity, to improve top-N recommendation relevance. I investigated recommendation-list diversification and revisited comparisons between classical methods, such as matrix factorization, and newer neural models. A substantial part of this work concerns evaluation frameworks, including Elliot, to ensure experimental reproducibility and rigorous comparisons between algorithms. Finally, my User Modeling research concerns adaptive user models, including visual merchandising settings where brand identity and operational efficiency must be balanced through dynamic, multi-objective preference modeling.

7 Bibliometric Indicators

Bibliometric indicators calculated on 14 October 2026:

Scopus (<https://www.scopus.com/authid/detail.uri?authorId=57078657900>)

- h-index: 25
- citations: 1677

Google Scholar (<https://scholar.google.it/citations?user=HPR91fgAAAAJ&hl=en&oi=ao>)

- h-index: 30
- citations: 2813

8 Research Awards

- **Best Short Paper Award** at the *48th International ACM SIGIR Conference on Research and Development in Information Retrieval, (SIGIR) 2025* for the research paper “Do LLMs memorize recommendation datasets?” [32] (CORE: A*).

- **Best Research Student Paper Award** at the *33rd ACM International Conference on User Modeling, Adaptation and Personalization (UMAP 2025)* for the research paper “Legal but Unfair: Auditing the Impact of Data Minimization on Fairness and Accuracy Trade-off in Recommender Systems” [33] (CORE: A).
- **SWSA Distinguished Dissertation Award** awarded by the *Semantic Web Science Association (SWSA)* for the doctoral dissertation “Knowledge-enabled Recommender Systems in the Linked Data Era” (<https://swsa.semanticweb.org/content/swsa-distinguished-dissertation-award>).
- **Best Paper Runner Up Short Paper Track** at the *30th ACM International Conference on Information & Knowledge Management (CIKM 2021)* for the research paper “A Formal Analysis of Recommendation Quality of Adversarially-trained Recommenders” [50] (CORE: A).
- **Best Research Student Paper Award** at the *18th International Semantic Web Conference (ISWC 2019)* for the research paper “How to make latent factors interpretable by feeding Factorization machines with knowledge graphs” [74] (CORE: A).

9 Academic and Institutional Service

9.1 Institutional Appointments

2025–present Departmental Delegate for Student Guidance

Dipartimento di Ingegneria Elettrica e dell’Informazione (DEI), Politecnico di Bari

2024–2026 Representative on the Executive Committee of the Department of Electrical and Information Engineering (<https://dei.poliba.it/wp-content/uploads/2024/11/Nomina-ricercatori-nella-Giunta-DEI-2024-2027-signed.pdf>)

Dipartimento di Ingegneria Elettrica e dell’Informazione (DEI), Politecnico di Bari

9.2 Membership of PhD Program Faculty Boards

2025–2028 - DOT130W083 Member of the faculty board of the PhD program in Electrical and Information Engineering (DRIEI), cycle XLI, at Politecnico di Bari (membership confirmed on 15/05/2025)

2024–2027 - DOT130W083 Member of the faculty board of the PhD program in Electrical and Information Engineering (DRIEI), cycle XL, at Politecnico di Bari (membership confirmed on 03/06/2024)

2021–2024 - DOT130W083 Member of the faculty board of the PhD program in Electrical and Information Engineering (DRIEI), cycle XXVII, at Politecnico di Bari (membership confirmed on 13/04/2021)

9.3 PhD Supervision

Supervisor for PhD candidate Antonio Pepe, cycle XLI of the PhD program in Electrical and Information Engineering (DRIEI) at Politecnico di Bari.

Supervisor for PhD candidate Donatello Maggi, cycle XLI of the PhD program in Electrical and Information Engineering (DRIEI) at Politecnico di Bari.

Supervisor for PhD candidate Sabino Roccotelli, cycle XLI of the joint-university PhD program with Università degli Studi di Bari "Aldo Moro" in Smart and Sustainable Industry (SSI).

Supervisor for PhD candidate Chiara Mallamaci, cycle XLI of the PhD program in Electrical and Information Engineering (DRIEI) at Politecnico di Bari.

Thesis Advisory Board Member for PhD candidate Marco Alessio, cycle XLI of the PhD program of the Computer Science Department at Università di Pisa.

Supervisor for PhD candidate Potito Aghilar, cycle XXXIX of the PhD program in Electrical and Information Engineering (DRIEI) at Politecnico di Bari.

Co-Supervisor for PhD candidate Giovanni Servedio, cycle XXXIX of the National PhD program in Artificial Intelligence at Sapienza Università di Roma.

Co-Supervisor for PhD candidate Dario Di Palma, cycle XXXVIII of the PhD program in Electrical and Information Engineering (DRIEI) at Politecnico di Bari.

External Examiner (PhD Thesis) University of Glasgow, Science and Engineering Graduate School, Computing Science School - December 20, 2022. Invited external examiner for the PhD thesis of Siwei Liu, entitled: "*Effective Graph Representation Learning for Ranking-based Recommendation*" and member of the final examination committee (viva).

9.4 Teaching in PhD Programs

2024/2025 Deep Learning for the PhD School (Scu.Do.) at Politecnico di Bari, 20 contact teaching hours (2 CFU credits);

2023/2024 Deep Neural Networks for the PhD School (Scu.Do.) at Politecnico di Bari, 20 contact teaching hours (2 CFU credits);

2022/2023 Machine learning for the PhD School (Scu.Do.) at Politecnico di Bari, 20 contact teaching hours (2 CFU credits);

9.5 Doctoral Consortium Mentoring

2025 Mentor at the 47th European Conference on Information Retrieval (ECIR), Lucca, Italy, April 6–10, 2025, CORE A;

2024 Mentor at the 18th ACM Conference on Recommender Systems (RecSys), Bari, Italy, October 14–18, 2024, CORE A;

2022 Mentor at the 30th ACM Conference on User Modeling, Adaptation and Personalization (UMAP), Barcelona, Spain, July 4–7, 2022, CORE B;

10 Invited Talks

- **29 September 2025** - Invited Seminar "Graph Neural Networks, from Theory to Recommender Systems" @ **Escuela Politécnica Superior, Universidad Autónoma de Madrid** - Programa Oficial de Posgrado en Ingeniería Informática y de Telecomunicación (official postgraduate program for master's students, PhD candidates, and postdoctoral researchers in Computer and Telecommunications Engineering).

- **18 July 2025** - Invited Seminar on Data Minization for Recommender Systems @ **European Commission, Joint Research Centre**, Directorate T – Digital Transformation and Data, Unit T.3 - European Centre for Algorithmic Transparency (ECAT).
- **8 October 2024** - Invited Lecture @ **ACM RecSys 2024 Summer School** on "Offline Recommender Systems Evaluation: Towards a Holistic Understanding of Recommendation Performance" (<https://acmrecsys.github.io/rsss2024/>).
- **9 April 2021** - Contributed talk in Personalized Recommendation Systems and Algorithms @ **MLSys 2021 - the 4th Annual Conference on Machine Learning and Systems** (<https://mlsys.org/virtual/2021/1752>).
- **25 October 2021** - Invited Keynote @ **ISWC 2021 Doctoral Consortium** - the 20th International Semantic Web Conference, titled "A coffee with Vito Walter Anelli, Politecnico di Bari, Winner of the SWSA Dissertation Award" (<https://web.archive.org/web/20220726155836/https://iswc2021.semanticweb.org/doctoral-consortium-program>).

10.1 Tutorial

- Trustworthy User Modeling and Recommendation From Technical and Regulatory Perspectives @ **ACM 32nd ACM Conference on User Modeling, Adaptation and Personalization (UMAP), 2024**
- Trustworthy Recommender Systems: Technical, Ethical, Legal, and Regulatory Perspectives @ **17th ACM Conference on Recommender Systems (RecSys), 2023**
- Pursuing Privacy in Recommender Systems: the View of Users and Researchers from Regulations to Applications @ **15th ACM Conference on Recommender Systems (RecSys), 2021**
- Adversarial Learning for Recommendation (AL4Rec) @ **43rd European Conference on Information Retrieval (ECIR), 2021**
- Adversarial Learning for Recommendation: Applications for Security and Generative Tasks - Concept to Code @ **14th ACM Conference on Recommender Systems (RecSys), 2020**

11 Scientific Responsibilities in International Academic Events

11.1 General Chair / Organizer

- **Track Chair:** Reproducibility Track at the 47th European Conference on Information Retrieval (ECIR) 2025
- **Associate Chair Full Papers Track:** the 34th ACM International Conference on Information and Knowledge Management (CIKM) 2025
- **Organizer:** 6th Knowledge-aware and Conversational Recommender Systems - KaRS co-located with the ACM International Conference on Recommender Systems (RecSys) 2024
- **Track Chair:** Reproducibility Track at the ACM International Conference on Recommender Systems (RecSys) 2024

- **Organizer:** 5th Knowledge-aware and Conversational Recommender Systems - KaRS co-located with the ACM International Conference on Recommender Systems (RecSys) 2023
- **Streaming & Broadcasting Chair:** 30th ACM Conference on User Modeling, Adaptation and Personalization (UMAP) 2022
- **Streaming & Broadcasting Chair:** 33rd ACM Conference on Hypertext and Social Media (HT) 2022
- **Tutorial Chair:** 22nd International Conference on Web Engineering (ICWE) 2022
- **Organizer:** 4th Knowledge-aware and Conversational Recommender Systems - KaRS co-located with the ACM International Conference on Recommender Systems (RecSys) 2022
- **General Chair:** 11th Italian Information Retrieval Workshop (IIR) 2021
- **ACM RecSys Challenge Chair:** 15th ACM International Conference on Recommender Systems (RecSys) Challenge Workshop 2021 - Official Conference Workshop
- **ACM RecSys Challenge Chair:** 14th ACM International Conference on Recommender Systems (RecSys) Challenge Workshop 2020 - Official Conference Workshop
- **Organizer:** 3rd Knowledge-aware and Conversational Recommender Systems - KaRS co-located with the ACM International Conference on Recommender Systems (RecSys) 2021
- **Organizer:** 2nd Knowledge-aware and Conversational Recommender Systems - KaRS co-located with the ACM International Conference on Information and Knowledge Management (CIKM) 2019
- **Organizer:** 1st Knowledge-aware and Conversational Recommender Systems - KaRS co-located with the ACM International Conference on Recommender Systems (RecSys) 2018

12 International Collaborations and Teaching

12.1 Teaching Appointments at International Universities and Research Institutions

- Academic year 2024–2025: Course *"Advanced Deep Learning"* for master's and PhD students at Universidad Autónoma de Madrid (Spain), 40 contact teaching hours (38 participants).
- 2025: Faculty Seminar *"Advanced Graph Neural Networks for Recommender Systems"* at Universidad Autónoma de Madrid (Spain).

12.2 Teaching and Research Visits Abroad

As part of my research activities, I carried out teaching and research abroad at the following international institutions:

- 2024/2025 - Advanced Deep Learning course (40 hours) for postdoctoral researchers, PhD students, and master's students - Universidad Autónoma de Madrid (Spain) - 47 participants.
- 2019 - Five-month research visit at Information Retrieval Group - Universidad Autónoma de Madrid (Spain).

12.3 Collaborations with National and International Research Institutions

As part of my research activities, I have collaborated and continue to collaborate with, among others, the following national and international research institutions:

- Centre for Health Informatics - Macquarie University, Australia (Shlomo Berkovsky)
- Institute of Human-Centred Computing, Graz University of Technology (Elisabeth Lex)
- University of Copenhagen, Denmark (Maria Maistro)
- Johannes Kepler University (JKU) Linz, Austria (prof. Markus Schedl)
- University of Klagenfurt, Austria (prof. Dietmar Jannach)
- School of Computing Science, University of Glasgow (prof. Craig Macdonald)
- University of London, Birkbeck College (dr. Andrea Calì);
- Universidad Autónoma de Madrid (prof. Alejandro Bellogin, prof. Ivan Cantador, prof. Pablo Castells);
- Università degli Studi di Bari (prof. Pasquale Lops)
- University of Milano Bicocca (prof. Andrea Maurino, prof. Mattero Palmonari)
- University of Brescia (prof.ssa Anisa Rula)

13 Books and Book Chapters

13.1 Monographs

- Markus Schedl, Vito Walter Anelli, and Elisabeth Lex. *Technical and Regulatory Perspectives on Information Retrieval and Recommender Systems: Fairness, Transparency, and Privacy*. Springer, 2025.

13.2 Book Chapters

- Vito Walter Anelli, Yashar Deldjoo, Tommaso Di Noia, and Felice Antonio Merra. *Adversarial recommender systems: Attack, defense, and advances*. In Francesco Ricci, Lior Rokach, and Bracha Shapira, editors, *Recommender Systems Handbook*, pages 335–379. Springer US, 2022.
- Vito Walter Anelli, Vito Bellini, Tommaso Di Noia, and Eugenio Di Sciascio. *Knowledge-aware interpretable recommender systems*. In Ilaria Tiddi, Freddy L'ecu'e, and Pascal Hitzler, editors, *Knowledge Graphs for eXplainable Artificial Intelligence: Foundations, Applications and Challenges*, volume 47 of *Studies on the Semantic Web*, pages 101–124. IOS Press, 2020.

14 Tutorials

- Trustworthy User Modeling and Recommendation From Technical and Regulatory Perspectives @ UMAP 2024
- Trustworthy Recommender Systems: Technical, Ethical, Legal, and Regulatory Perspectives @ RecSys 2023
- Pursuing Privacy in Recommender Systems: the View of Users and Researchers from Regulations to Applications @ RecSys 2021
- Adversarial Learning for Recommendation (AL4Rec) @ ECIR 2021
- Adversarial Learning for Recommendation: Applications for Security and Generative Tasks - Concept to Code @ RecSys 2020

15 Research Projects

15.1 Scientific Responsibility for Research Contracts

- 12/2024–12/2025 (UGOV source): Development contract with Natuzzi for “Multimodal search engine” – total compensation €40000. **Principal Investigator.**
- 05/2022–12/2023 (UGOV source): Research contract with Consorzio MediTech (Mediterranean Competence Centre 4 Innovation) for “Support for the development of a system to detect the geometry of physical objects to create digital twins that can be imported into virtual environments” – compensation €18000 excluding VAT, total compensation €21960. **Principal Investigator.**
- 07/2022–12/2023 (UGOV source): Research contract with Exprivia S.p.A. for “Support for the development of a system for importing CAD/CAM models to generate digital twins of physical objects” – compensation €20000 excluding VAT, total compensation €24400. **Principal Investigator.**

15.2 Scientific Responsibility for International Research Projects Awarded through Peer-Reviewed Competitive Calls

- EPANSA project, selected under the “Cascade Call” issued by Rectoral Decree no. 123 of 16/01/2024 by Università degli Studi di Bari Aldo Moro, within the FAIR – Future Artificial Intelligence Research project, project code PE00000013, CUP H97G22000210007, Spoke 6 “Symbiotic AI”, funded through MUR Call no. 341 of 15/03/2022 – PNRR, Mission 4, Component 2, Investment 1.3, with European Union – NextGenerationEU funding – budget €300000. **Principal Investigator.**

Work Unit Leader

- Project PASSEPARTOUT, Grant Agreement number: 101016956, H2020-ICT-2018-20 / H2020-ICT-2020-2 - Work Package 9.
- Project FLEet management optimization through I4.0 enabled smart maintenance (FLET4.0) (PON Ricerca e Innovazione 2014-2020) - Implementation Objective 4, concerning development of a Service-Oriented Architecture (SOA) to streamline maintenance using Internet of Things (IoT) technologies.

- Project BIO-D: DEVELOPMENT OF DIAGNOSTIC BIOMARKERS FOR PRECISION MEDICINE AND PERSONALIZED THERAPY (PON Ricerca e Innovazione 2014-2020) - Implementation Objective 3, concerning machine-understandable representation of medical data and development of AI-based diagnostic tools.

Participant

- *Research Contract with OVS Innovazione e Sostenibilità.*
Design of a semantic layer and predictive and generative deep-learning models; design and development of a multichannel recommendation engine.
- *Research Contract with Servizi Locali.*
Analysis and design of artificial-intelligence-based solutions for local authorities.
- *FLET 4.0* - National Project.
Semantic integration of heterogeneous data sources using semantic methods and technologies to create Linked Open Data.
- *Research Contract with FINCONS SPA.*
Analysis of machine-learning techniques to produce semantically interpretable classification results.
- *APOLLON* - Regional Project.
Design and implementation of a Semantic Engine and an ontology for monitoring pollutants in the Apulia Region.
- *FAIRS. Food Awareness Enabled through the Internet of Things and Recommender Systems applied to a grocery store* - Horizon 2020.
Design and implementation of a time-, location-, and context-aware recommender system for grocery stores.
- *LOD@PugliaDigitalLibrary* - Research Contract with InnovaPuglia.
Development of a virtual assistant for interacting with the Puglia Digital Library Knowledge Graph.
- *Corvallis 3.0* - Research contract with Corvallis S.p.A.
Design and development of a tool for querying geospatial knowledge bases using SPARQL.
- *Digital Services Ecosystem: DSE* - National Project.
Experimentation in the healthcare supply chain: validation of a semantic query tool for open data.
- *Digital Services Ecosystem: DSE* - National Project.
Design of machine-learning solutions for healthcare data to classify and identify complex processes.

15.3 Other Research Activities

from 12 May 2020 to 12 June 2021 – *FLET 4.0* - National Project. Postdoctoral research fellowship on the topic of *Semantic integration of heterogeneous data sources using semantic methods and technologies to create Linked Open Data*.

from 18 May 2020 to 18 June 2020 – *FLET 4.0* - National Project. Short-term research contract on the topic of *Semantic integration of heterogeneous data sources using semantic methods and technologies to create Linked Open Data*.

from 04 April 2019 to 04 May 2019 – *Research Contract with FINCONS SPA*. Short-term research contract on the topic of *Analysis of machine-learning techniques to produce semantically interpretable classification results*.

from 01 March 2018 to 31 March 2018 – *Digital Services Ecosystem: DSE* - National Project. Short-term research contract on the topic of Experimentation in the healthcare supply chain: validation of a semantic query tool for open data.

from 02 November 2016 to 22 November 2016 – *Digital Services Ecosystem: DSE* - National Project. Short-term research contract on the topic of Design of machine-learning solutions for healthcare data to classify and identify complex processes.

16 Service to the Scientific Community

Guest Editor:

- Guest Editor for: User Modeling and User-Adapted Interaction (UMUAI) <https://www.springer.com/journal/11257> Scimago Journal Ranking Q1 - Special Issue on Conversational Recommender Systems: Theory, Models, Evaluations, and Trends. Special Issue link: <https://vitowalteranelli.github.io/umuai-conversational-recsys/>
- Guest Editor for: International Journal of Data Science and Analytics (Electronic ISSN 2364-4168, Print ISSN 2364-415X) Scimago Journal Ranking Q2 - Special Issue on Data Science for Next-Generation Recommender Systems. Special Issue link: <https://www.springer.com/journal/41060/updates/17193470Scimagolink:https://www.scimagojr.com/journalsearch.php?q=21101017225&tip=sid&clean=0>
- Guest Editor for: Informatics (ISSN 2227-9709) Scimago Journal Ranking Q2 - Special Issue on Applications of Machine Learning and Deep Learning in Agriculture. Special Issue link: https://www.mdpi.com/journal/informatics/special_issues/AMLDLAScimagolink:https://www.scimagojr.com/journalsearch.php?q=21100897717&tip=sid&clean=0

Session Chair:

- *19th ACM Conference on Recommender Systems (RecSys 2025)* - Session 5: Navigating User Journeys at Scale: Sequencing, Personalization, and Data-Driven Insights in Recommender Systems (<https://recsys.acm.org/recsys25/session-5/>)
- *33rd ACM International Conference on User Modeling, Adaptation and Personalization (UMAP 2025)* - Poster Madness - Day 2
- *18th ACM Recommender Systems conference (RecSys 2024)* - Session 2: Bias and Fairness 1 (<https://recsys.acm.org/recsys24/session-2/>)
- *17th ACM Recommender Systems conference (RecSys 2023)* - Session 8 - Knowledge and Context (<https://recsys.acm.org/recsys23/session-8/>)
- *30th International Conference on Information and Knowledge Management (CIKM 2021)* - Main track 3C: Recommendation and Collaborative Filtering (<https://www.cikm2021.org/programme/session/3C>)

- *29th International Conference on Information and Knowledge Management (CIKM 2020) Resource Track (https://whova.com/embedded/session/cikm_202010/1310372/?view=)*
- *28th International Conference on Information and Knowledge Management (CIKM 2019)*

Senior Program Committee:

- 2026**
- *49th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2026) - Area Chair*
 - *20th ACM Recommender Systems conference (RecSys 2026) - Senior PC member*
 - *34th ACM Conference on User Modeling, Adaptation and Personalization (UMAP 2026) - Senior PC member*
 - *32nd ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2026) - AI4Sciences Track - Area Chair*
 - *The ACM International Web Conference 2026 (TheWebConf 2026) - User Modeling, Personalization and Recommendation (Full Papers) - Senior PC member*
- 2025**
- *19th ACM Recommender Systems conference (RecSys 2025) Senior PC member (Full Papers)*
 - *19th ACM Recommender Systems conference (RecSys 2025) Senior PC member (Short Papers)*
 - *19th ACM Recommender Systems conference (RecSys 2025) Senior PC member (Reproducibility Papers)*
 - *ACM International Conference for Information and Management (CIKM 2025) - Senior PC member (Full Research Papers)*
- 2024**
- *ACM International Conference for Information and Management (CIKM 2024) - Senior PC member (Full Research Papers Track)*
 - *32nd ACM International Conference on User Modeling, Adaptation and Personalization (UMAP 2024) Senior PC member (Full and Short Papers Track)*

Membro del Comitato di Programma:

- 2026**
- *ACM International World Wide Web Conference 2026 (TheWebConf 2026) - Short Papers*
 - *47th European Conference on Information Retrieval (ECIR 2026) - Full Papers*
 - *25th International Semantic Web Conference (ISWC 2026) - Resource Track*
 - *21st IEEE International Workshop on e-Health Systems & Web Technologies (ESAS 2026) @ COMPSAC 2026*
 - *22nd International Conference on Semantics Systems (SEMANTiCS 2026) - Research & Innovation Track*
 - *34th Symposium On Advanced Database Systems 2026 (SEBD 2026)*
- 2025**
- *ACM International World Wide Web Conference 2025 (TheWebConf 2025)*
 - *18th ACM International Conference Web Search and Data Mining (WSDM 2025)*

- *46th European Conference on Information Retrieval (ECIR 2025)*
- *20th IEEE International Workshop on e-Health Systems & Web Technologies (ESAS 2025) @ COMPSAC 2025*
- *48th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'25) - Full papers*
- *48th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'25) - Short papers*
- *48th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'25) - Resource papers & Reproducibility*
- *21st International Conference on Semantics Systems (SEMANTiCS 2025) - Research & Innovation Track*
- *24th International Semantic Web Conference (ISWC 2025) - Resource Track*
- *ACM International Conference for Information and Management (CIKM 2025) - (Short Research Papers)*
- *ACM International Conference for Information and Management (CIKM 2025) - (Reproducibility Papers)*
- *19th International Workshop on Neural-Symbolic Learning and Reasoning (NeSy 2025)*
- *36th British Machine Vision Conference - BMVC 2025*
- *15th Italian Information Retrieval Workshop (IIR 2025)*
- 2024**
 - *14th Italian Information Retrieval Workshop (IIR 2024)*
 - *17th ACM International Conference Web Search and Data Mining (WSDM 2024)*
 - *24th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2024)*
 - *18th International Workshop on Neural-Symbolic Learning and Reasoning (NeSy 2024)*
 - *ACM International Conference for Information and Management (CIKM 2024) - Full Research Papers Senior PC*
 - *ACM International Conference for Information and Management (CIKM 2024) - Short Research Papers*
 - *ACM International Conference for Information and Management (CIKM 2024) - Resource Papers*
 - *23rd International Semantic Web Conference (ISWC 2024) - Resource Track*
 - *17th ACM Recommender Systems conference (RecSys 2024) Reproducibility Track Co-Chair*
 - *20th International Conference on Semantics Systems (SEMANTiCS 2024) - Research & Innovation Track*
 - *47th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'24) - Full papers*
 - *47th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'24) - Short papers*
 - *47th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'24) - Resource papers & Reproducibility*
 - *21st European Semantic Web Conference (ESWC 2024) - Research Track*

- *Conference and Labs of the Evaluation Forum (CLEF 2024) - Lab Proposals*
 - *The ACM Web Conference 2023 (TheWebConf2023) - Short papers*
 - *45th European Conference on Information Retrieval (ECIR 2024) - Full papers*
 - *45th European Conference on Information Retrieval (ECIR 2024) - Short papers*
 - *45th European Conference on Information Retrieval (ECIR 2024) - IR for Good*
 - *32nd ACM Conference on User Modeling, Adaptation and Personalization (UMAP 2024) - Full and Short Papers - senior PC member*
 - *32nd ACM Conference on User Modeling, Adaptation and Personalization (UMAP 2024) - Late Breaking Results and Demo Papers*
 - *17th ACM Recommender Systems conference (RecSys 2023) Reproducibility Track Co-Chair*
 - *17th ACM International Conference on Web Search and Data Mining (WSDM 2024) Main Track*
- 2023**
- *Conference and Labs of the Evaluation Forum (CLEF 2023) - Lab Proposals*
 - *The ACM Web Conference 2023 (TheWebConf2023) - Systems and Infrastructure for Web, Mobile Web, and Web of Things*
 - *The ACM Web Conference 2023 (TheWebConf2023) - Poster & Demos*
 - *The ACM Web Conference 2023 (TheWebConf2023) - Industry*
 - *ACM International Conference for Information and Management (CIKM 2023) - Long/Full Papers Track*
 - *ACM International Conference for Information and Management (CIKM 2023) - Short Paper Track*
 - *1st Workshop on Legal Information Retrieval meets Artificial Intelligence (LIRAI 2023)*
 - *17th International Workshop on Neural-Symbolic Learning and Reasoning (NeSy 2023)*
 - *IEEE Signature Conference on Computers, Software, and Applications (COMP-SAC 2023) - ESAS 2023: 18th IEEE International Workshop on E-Health Systems & Web Technologies*
 - *27th European Conference on Advances in Databases and Information Systems (ADBIS'23 - PeRS) - 2nd Workshop on Personalization and Recommender Systems*
 - *22nd International Semantic Web Conference (ISWC 2023) - Resource Track*
 - *19th International Conference on Semantics Systems (SEMANTiCS 2023) - Research & Innovation Track*
 - *17th ACM Recommender Systems conference (RecSys 2023) Full Papers Track*
 - *17th ACM Recommender Systems conference (RecSys 2023) Reproducibility Track*
 - *46th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'23) - Full papers*
 - *46th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'23) - Short papers*

- *46th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'23) - Resource papers*
- *31st ACM Conference on User Modeling, Adaptation and Personalization (UMAP 2023) - Main Conference Papers*
- *31st ACM Conference on User Modeling, Adaptation and Personalization (UMAP 2023) - LBR and Demos*
- *31st ACM Conference on User Modeling, Adaptation and Personalization (UMAP'23) - workshop ExUM*
- *The Web Conference 2023 (TheWebConf 2023) - (Systems and Infrastructure for Web, Mobile Web, and Web of Things)*
- *45th European Conference on Information Retrieval (ECIR 2023) - Short papers*
- *20th European Semantic Web Conference (ESWC 2023) - Research Track*
- *16th ACM International Conference on Web Search and Data Mining (WSDM 2023) Main Track*
- 2022**
 - *16th ACM International Conference on Web Search and Data Mining (WSDM 2023) Main Track*
 - *16th ACM International Conference on Web Search and Data Mining (WSDM 2023) Main Track*
 - *16th ACM Recommender Systems conference (RecSys 2022) Main Track*
 - *16th ACM Recommender Systems conference (RecSys 2022) Reproducibility Track*
 - *Measuring Quality of Explanations in Recommender Systems, co-located with SIGIR 2022 (QUARE'22)*
 - *30th ACM Conference on User Modeling, Adaptation and Personalization (UMAP'22) - LBR and Demos*
 - *30th ACM Conference on User Modeling, Adaptation and Personalization (UMAP'22) - workshop ExUM*
 - *30th ACM Conference on User Modeling, Adaptation and Personalization (UMAP'22) - Doctoral Consortium*
 - *18th International Conference on Semantics Systems (SEMANTiCS 2022) - Research & Innovation Track*
 - *ACM International Conference for Information and Management (CIKM 2022) - Short Paper Track*
 - *The 45th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'22) - Resource paper*
 - *The Web Conference 2022 (TheWebConf 2022) - User Modeling, Personalization and Accessibility*
 - *The Web Conference 2022 (TheWebConf 2022) - Poster-Demo*
 - *2nd International Joint Conference on Learning and Reasoning (IJCLR 2022) - NeSy 2022*
 - *IEEE Signature Conference on Computers, Software, and Applications (COMP-SAC 2022) - ESAS 2022: 17th IEEE International Workshop on E-Health Systems & Web Technologies*
 - *17th Conference on Computer Science and Intelligence Systems (FedCSIS 2022) - 1st Workshop on Personalization and Recommender Systems*

- *APEX-UI 2022 1st Workshop on Adaptive and Personalized Explainable User Interfaces*
- 2021**
 - *15th ACM Recommender Systems conference (RecSys 2021) Demo Track*
 - *15th ACM Recommender Systems conference (RecSys 2021) Reproducibility Track*
 - *Second Workshop on Online Misinformation- and Harm-Aware Recommender Systems (OHARS-2021) co-located with RecSys 2021*
 - *1st International Joint Conference on Learning and Reasoning (IJCLR 2021)*
 - *Workshop on Perspectives on the Evaluation of Recommender Systems (Perspectives 2021) co-located with RecSys 2021*
 - *7th International Workshop on Knowledge Discovery on the Web (KDWEB 2021)*
 - *30th International Conference on Information and Knowledge Management (CIKM 2021) Resource Track*
 - *7th International Workshop on Knowledge Discovery on the Web at the 21th International Conference on Web Engineering (ICWE 2021)*
 - *44th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2021) Resource Track*
 - *17th International Conference on Semantic Systems (SEMANTiCS 2021) Research & Innovation Track*
 - *First International Workshop on Evaluation and Analysis of Recommender Systems in Software Engineering (WEARS 2021)*
 - *ExUM: Explainable User Models and Personalised Systems Workshop at 29th Conference on User Modeling, Adaptation and Personalization (UMAP 2021)*
 - *16th IEEE International Workshop on E-Health Systems and Web Technologies (ESAS 2021) co-located with IEEE COMPSAC 2021*
- 2020**
 - *14th ACM Recommender Systems conference (RecSys 2020) Main Track*
 - *14th ACM Recommender Systems conference (RecSys 2020) Demo Track*
 - *14th ACM Recommender Systems conference (RecSys 2020) Reproducibility Track*
 - *16th International Conference on Semantic Systems (SEMANTiCS 2020) Research & Innovation Track*
 - *29th International Conference on Information and Knowledge Management (CIKM 2020) Resource Track*
 - *European Conference on Information Systems (ECIS 2020)*
 - *5th International Conference on Real-Time Intelligent Systems (RTIS 2020)*
 - *15th IEEE International Workshop on E-Health Systems and Web Technologies (ESAS 2020) co-located with IEEE COMPSAC 2020*
- 2019**
 - *13th ACM Recommender Systems conference (RecSys 2019) RecSys Challenge Workshop*
 - *13th ACM Recommender Systems conference (RecSys 2019) Late-Breaking Results track*
 - *15th International Conference on Semantic Systems (SEMANTiCS 2019)*

- *14th IEEE International Workshop on E-Health Systems and Web Technologies (ESAS 2019)* co-located with IEEE COMPSAC 2019
- *9th International Conference on Web Intelligence, Mining and Semantics (WIMS 2019)*
- 2018**
 - *1st Workshop on Deep Learning for Knowledge Graphs and Semantic Technologies (DL4KGS)* co-located with ESWC 2018
 - *15th Extended Semantic Web Conference (ESWC 2018)*
 - *SoAPS: Workshop on Social Aspects in Personalization and Search* co-located with ECIR 2018

Revisore:

Riviste Internazionali e Capitoli di Libri internazionali

- Distributed and Parallel Databases
- ACM Transactions on Recommender Systems
- Information Sciences
- Knowledge and Information Sciences
- ACM Transactions on Information Systems
- Information Processing and Management
- ACM Transactions on Data Science
- IEEE Transactions on Knowledge and Data Engineering.
- Transactions on Emerging Telecommunications Technologies
- Expert Systems
- Knowledge-Based Systems
- IEEE Access

Conferenze e Workshop

- RecSys 2017 (11th ACM Recommender Systems Conference)

17 Teaching

17.1 University Courses

I began teaching in academic year 2016/17 and have taught university courses continuously since then. During this period, I supervised and co-supervised 23 master's theses.

Instructor for:

2026/27 Deep Learning for the master's degree program in Computer Engineering.

2026/27 Programming Laboratory for the master's degree program in Digital Transformation.

2025/26 Deep Learning for the master's degree program in Computer Engineering.

2025/26 Programming Laboratory for the master's degree program in Digital Transformation.

2024/25 Deep Learning for the master's degree program in Computer Engineering.

2024/25 Programming Laboratory for the master's degree program in Digital Transformation.

2023/24 Deep Learning for the master's degree program in Computer Engineering.

2023/24 Programming Laboratory for the master's degree program in Digital Transformation.

2022/23 Deep Learning for the master's degree program in Computer Engineering.

2021/22 Algorithms and Data Structures in Java for the bachelor's degree program in Computer and Automation Engineering.

2020/21 Computer Science Laboratory for the bachelor's degree program in Electronics and Telecommunications Engineering.

2019/20 Computer Science Laboratory for the bachelor's degree program in Electronics and Telecommunications Engineering.

Teaching in PhD Programs:

2024/2025 Deep Learning for the PhD School (Scu.Do.) at Politecnico di Bari;

2023/2024 Deep Neural Networks for the PhD School (Scu.Do.) at Politecnico di Bari;

2022/2023 Machine learning for the PhD School (Scu.Do.) at Politecnico di Bari;

Teaching in University Master Programs:

2025/2026 Machine Learning and Deep Learning with Generative AI Concepts for the second-level university master's program in *Intelligenza Artificiale e Data Science*;

2024/2025 Deep Learning: learning from the data without humans for the second-level university short master's program in *Intelligenza Artificiale*;

2023/2024 Practising Data Science for the second-level university master's program in *Data Science: Metodologie, analisi, progettazione, soluzioni*;

2022/2023 Machine Learning and Data Mining for the second-level university master's program in *Data Science: Metodologie, analisi, progettazione, soluzioni*;

2022/2023 Allineamento for the second-level university master's program in *Data Science: Metodologie, analisi, progettazione, soluzioni*;

2021/2022 Machine Learning and Data Mining for the second-level university master's program in *Data Science: Metodologie, analisi, progettazione, soluzioni*;

2020/2021 Machine Learning and Data Mining for the second-level university master's program in *Data Science: Metodologie, analisi, progettazione, soluzioni*;

2019/2020 Machine Learning and Data Mining for the second-level university master's program in *Data Science: Metodologie, analisi, progettazione, soluzioni*;

2019/2020 Linked Open Data and Knowledge Graphs for the second-level university master's program in *Data Science: Metodologie, analisi, progettazione, soluzioni*;

2019/2020 Preparatory Course for the second-level university master's program in *Data Science: Metodologie, analisi, progettazione, soluzioni*;

2018/2019 Semantic Web and OpenRefine for the second-level university master's program in *Data Science: Metodologie, analisi, progettazione, soluzioni*.

University Course Teaching Support:

2022/23 – Foundations of Machine Learning for master's students in Computer and Automation Engineering.

2021/22 – Artificial Intelligence and Machine Learning for master's students in Computer and Automation Engineering.

2021/22 – Big Data Analytics for master's students in Management and Telecommunications Engineering.

2020/21 – Artificial Intelligence and Machine Learning for master's students in Computer and Automation Engineering.

2020/21 – Big Data Analytics for master's students in Management and Telecommunications Engineering.

2019/20 – Artificial Intelligence and Machine Learning for master's students in Computer and Automation Engineering.

2019/20 – Big Data Analytics for master's students in Management and Telecommunications Engineering.

since 2018/19 – Logics and Artificial Intelligence for master's students in Computer Engineering.

since 2016/17 – Logica ed Intelligenza Artificiale for master's students in Computer Engineering.

2016/17 – Informatica per l'Ingegneria for bachelor's students.

17.2 Non-University Courses

My non-university teaching began in academic year 2016/17 and has primarily focused on inclusion, technology transfer, and advanced training.

Instructor for:

2022/23 – Java Back-End in DevOps for the reskilling "Lutech Digitale 4.0".

2022/23 – CNN (Deep Learning, TensorFlow, Python) for students of the Academy IFTS MerMerc - Formazione Softweristi.

2022/23 – Machine Learning in Python for students of Collegio di Eccellenza Poggiolevante Bari.

2018/19 – Machine Learning in Python for students of Collegio di Eccellenza Poggiolevante Bari.

Non-University Course Teaching Support:

2016 – Open Access e Open Data Teaching assistance and practical exercises. Event organized by Politecnico di Bari.

2016 – TIMgirlsHackathon Programming tutoring. Organized by CodeEmotion in collaboration with Politecnico di Bari.

2016 – Progetto NERD Programming tutoring. Organized by IBM in collaboration with Politecnico di Bari.

18 References

18.1 Editor of International Books/Proceedings/Journals

- [1] Vito Walter Anelli, Li Chen, Gerard de Melo, Julian J. McAuley, Fedelucio Narducci, and Azzurra Ragone. Preface to the special issue on conversational recommender systems: theory, models, evaluations, and trends. *User Model. User Adapt. Interact.*, 34(5):1529–1533, 2024.
- [2] Shoujin Wang, Yan Wang, Fikret Sivrikaya, Sahin Albayrak, and Vito Walter Anelli. Data science for next-generation recommender systems. *Int. J. Data Sci. Anal.*, 16(2):135–145, 2023.
- [3] Vito Walter Anelli, Pierpaolo Basile, Gerard de Melo, Francesco Maria Donini, Antonio Ferrara, Cataldo Musto, Fedelucio Narducci, Azzurra Ragone, and Markus Zanker, editors. *Proceedings of the Fourth Knowledge-aware and Conversational Recommender Systems Workshop co-located with 16th ACM Conference on Recommender Systems (RecSys 2022), Seattle, WA, USA, September 22nd, 2022*, volume 3294 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2022.
- [4] Luca Belli, Alykhan Tejani, Frank Portman, Alexandre Lung-Yut-Fong, Ben Chamberlain, Yuanpu Xie, Kristian Lum, Jonathan Hunt, Michael M. Bronstein, Vito Walter Anelli, Saikishore Kalloori, Bruce Ferwerda, and Wenzhe Shi. The 2021 recsys challenge dataset: Fairness is not optional. In *RecSys Challenge 2021: Proceedings of the Recommender Systems Challenge 2021, Amsterdam, The Netherlands, 1 October 2021*, pages 1–6. ACM, 2021.
- [5] Vito Walter Anelli, Pierpaolo Basile, Toine Bogers, Tommaso Di Noia, Francesco Maria Donini, Bamshad Mobasher, Cataldo Musto, Fedelucio Narducci, Casper Petersen, Maria Soledad Pera, and Markus Zanker. Report on the 3rd workshop of knowledge-aware and conversational recommender systems (kars/complexrec) at recsys 2021. *SIGIR Forum*, 55(2):17:1–17:9, 2021.
- [6] Vito Walter Anelli, Amra Delic, Gabriele Sottocornola, Jessie Smith, Nazareno Andrade, Luca Belli, Michael M. Bronstein, Akshay Gupta, Sofia Ira Ktena, Alexandre Lung-Yut-Fong, Frank Portman, Alykhan Tejani, Yuanpu Xie, Xiao Zhu, and

Wenzhe Shi, editors. *RecSysChallenge '20: Proceedings of the Recommender Systems Challenge 2020*, New York, NY, USA, 2020. Association for Computing Machinery.

- [7] Vito Walter Anelli and Tommaso Di Noia, editors. *Proceedings of the Second Workshop on Knowledge-aware and Conversational Recommender Systems, co-located with 28th ACM International Conference on Information and Knowledge Management, KaRS@CIKM 2019, Beijing, China, November 7, 2019*, volume 2601 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2020.
- [8] Vito Walter Anelli, Tommaso Di Noia, Pasquale Lops, Cataldo Musto, Markus Zanker, Pierpaolo Basile, Derek G. Bridge, and Fedelucio Narducci, editors. *Proceedings of the Workshop on Knowledge-aware and Conversational Recommender Systems 2018 co-located with 12th ACM Conference on Recommender Systems, KaRS@RecSys 2018, Vancouver, Canada, October 7, 2018*, volume 2290 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2019.

18.2 International Journals, Books and Book Chapters

- [9] Markus Schedl, Vito Walter Anelli, and Elisabeth Lex. *Technical and Regulatory Perspectives on Information Retrieval and Recommender Systems: Fairness, Transparency, and Privacy*. Springer, 2025.
- [10] Potito Aghilar, Vito Walter Anelli, Michelantonio Trizio, Eugenio Di Sciascio, and Tommaso Di Noia. Training-free, identity-preserving image editing for fashion pose alignment and normalization. *Expert Syst. Appl.*, 293:128579, 2025.
- [11] Antonio Ferrara, Vito Walter Anelli, Alberto Carlo Maria Mancino, Tommaso Di Noia, and Eugenio Di Sciascio. Kgflex: Efficient recommendation with sparse feature factorization and knowledge graphs. *Trans. Recomm. Syst.*, 1(4):1–30, 2023.
- [12] Giandomenico Cornacchia, Vito Walter Anelli, Giovanni Maria Biancofiore, Fedelucio Narducci, Claudio Pomo, Azzurra Ragone, and Eugenio Di Sciascio. Auditing fairness under unawareness through counterfactual reasoning. *Inf. Process. Manag.*, 60(2):103224, 2023.
- [13] Giandomenico Cornacchia, Vito Walter Anelli, Fedelucio Narducci, Azzurra Ragone, and Eugenio Di Sciascio. A general architecture for a trustworthy creditworthiness-assessment platform in the financial domain. *Annals of Emerging Technologies in Computing (AETiC)*, 7(2), 2023.
- [14] Francesco Paolo Schena, Vito Walter Anelli, Tommaso Di Noia, Giovanni Tripepi, Daniela Isabel Abbrescia, Maria Stangou, Aikaterini Papagianni, Maria Luisa Russo, Graziella D’Arrigo, and Carlo Manno. Post-hoc analysis of a tool to predict kidney failure in patients with iga nephropathy. *Journal of Nephrology*, 36(2):451–461, 2023.
- [15] Francesco Paolo Schena, Vito Walter Anelli, Daniela Isabel Abbrescia, and Tommaso Di Noia. Prediction of chronic kidney disease and its progression by artificial intelligence algorithms. *Journal of Nephrology*, 35(8):1953–1971, 2022.
- [16] Francesco P Schena, Riccardo Magistroni, Fedelucio Narducci, Daniela I Abbrescia, Vito W Anelli, and Tommaso Di Noia. Artificial intelligence in glomerular diseases. *Pediatric Nephrology*, 37(11):2533–2545, 2022.

- [17] Vito Walter Anelli, Yashar Deldjoo, Tommaso Di Noia, and Felice Antonio Merra. Adversarial recommender systems: Attack, defense, and advances. In Francesco Ricci, Lior Rokach, and Bracha Shapira, editors, *Recommender Systems Handbook*, pages 335–379. Springer US, 2022.
- [18] Vito Walter Anelli, Yashar Deldjoo, Tommaso Di Noia, Antonio Ferrara, and Fedelucio Narducci. User-controlled federated matrix factorization for recommender systems. *J. Intell. Inf. Syst.*, 58(2):287–309, 2022.
- [19] Vito Walter Anelli, Tommaso Di Noia, Eugenio Di Sciascio, Azzurra Ragone, and Joseph Trotta. Semantic interpretation of top-n recommendations. *IEEE Trans. Knowl. Data Eng.*, 34(5):2416–2428, 2022.
- [20] Francesco Paolo Schena, Vito Walter Anelli, Joseph Trotta, Tommaso Di Noia, Carlo Manno, Giovanni Tripepi, Graziella D’Arrigo, Nicholas C Chesnaye, Maria Luisa Russo, Maria Stangou, et al. Development and testing of an artificial intelligence tool for predicting end-stage kidney disease in patients with immunoglobulin a nephropathy. *Kidney International*, 2020.
- [21] Yashar Deldjoo, Vito Walter Anelli, Hamed Zamani, Alejandro Bellogín, and Tommaso Di Noia. A flexible framework for evaluating user and item fairness in recommender systems. *User Model. User Adapt. Interact.*, 31(3):457–511, 2021.
- [22] Vito Walter Anelli, Yashar Deldjoo, Tommaso Di Noia, and Antonio Ferrara. Prioritized multi-criteria federated learning. *Intelligenza Artificiale*, 14(2):183–200, 2020.
- [23] Vito Walter Anelli, Renato De Leone, Tommaso Di Noia, Thomas Lukasiewicz, and Jessica Rosati. Combining RDF and SPARQL with cp-theories to reason about preferences in a linked data setting. *Semantic Web*, 11(3):391–419, 2020.
- [24] Vito Walter Anelli, Vito Bellini, Tommaso Di Noia, and Eugenio Di Sciascio. Knowledge-aware interpretable recommender systems. In Ilaria Tiddi, Freddy Lécué, and Pascal Hitzler, editors, *Knowledge Graphs for eXplainable Artificial Intelligence: Foundations, Applications and Challenges*, volume 47 of *Studies on the Semantic Web*, pages 101–124. IOS Press, 2020.
- [25] Ignacio Fernández-Tobías, Iván Cantador, Paolo Tomeo, Vito Walter Anelli, and Tommaso Di Noia. Addressing the user cold start with cross-domain collaborative filtering: exploiting item metadata in matrix factorization. *User Model. User Adapt. Interact.*, 29(2):443–486, 2019.

18.3 International Conferences

- [26] Gabriele Conte, Alessio Mattiace, Gianni Carmosino, Potito Aghilar, Giovanni Servedio, Francesco Musicco, Vito Walter Anelli, Tommaso Di Noia, and Francesco Maria Donini. RUVA: personalized transparent on-device graph reasoning. In *Proceedings of the Thirty-Fifth International Joint Conference on Artificial Intelligence and the 29th European Conference on Artificial Intelligence, IJCAI/ECAI 2026, Bremen, Germany, 15-21 August 2026*, pages 8375–8379. ijcai.org, 2026.
- [27] Potito Aghilar, Sabino Roccotelli, Vito Walter Anelli, Alejandro Bellogín, Michelantonio Trizio, and Tommaso Di Noia. ACE: semantically-grounded graph alignment via affective contrastive learning. In Alistair Moffat, Falk Scholer, Hannah Bast, Marc Najork, and Min Zhang, editors, *Proceedings of the 49th International ACM*

- SIGIR Conference on Research and Development in Information Retrieval, SIGIR 2026, MelbourneVICAustralia, July 20-24, 2026*, pages 17–28. ACM, 2026.
- [28] Chiara Mallamaci, Aleksandr V. Petrov, Alberto Carlo Maria Mancino, Vito Walter Anelli, Tommaso Di Noia, and Craig Macdonald. Balancing accuracy and novelty with sub-item popularity. In Mária Bieliková, Pavel Kordík, Markus Schedl, Marco de Gemmis, Sole Pera, Rodrigo Alves, Olivier Jeunen, and Vito Ostuni, editors, *Proceedings of the Nineteenth ACM Conference on Recommender Systems, RecSys 2025, Prague, Czech Republic, September 22-26, 2025*, pages 1137–1141. ACM, 2025.
- [29] Giovanni Servedio, Alessandro De Bellis, Dario Di Palma, Vito Walter Anelli, and Tommaso Di Noia. Are the hidden states hiding something? testing the limits of factuality-encoding capabilities in llms. In *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), ACL 2025, Wien, Austria, July 27 - August 1, 2025*. ACM, 2025.
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The undersigned declares that all statements herein are true pursuant to Articles 46 and 47 of Italian Presidential Decree No. 445/2000.

I authorize the processing of my personal data pursuant to Italian Legislative Decree No. 196 of 30 June 2003 (Personal Data Protection Code).

Bari, October 14, 2026

Vito Walter Anelli