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Last update: June 10, 2026

Roberto Posenato

Curriculum Vitae

Education

Nov 1992–Oct 1995 **PhD in Computational Maths and Operations Research**, *University of Milano-Statale*, Italy
Original title: Dottorato di Ricerca in Matematica computazionale e Ricerca Operativa. VII edition, supported by a 3-year State Scholarship.

Feb 1991 **MSc in Computer Science (highest honours)**, *University of Milano-Statale*, Italy
Original title: Laurea in Scienze dell'Informazione.

Italian mother tongue
English fluent
Spanish fluent

Professional Experience

Since Feb 2026 **Associate Professor in SSD 09/H1 (Information Processing Systems)**, *University of Verona*, Italy
3 active courses (Temporal Reasoning, Algorithms for Bioinformatics, Programming Laboratory II); supervision of undergraduate and graduate theses; Rector's Delegate for the Transition to Digital Intelligence (since Oct. 2025).

Oct 2019–Jan 2026 **Associate Professor in SSD INF/01 (Computer Science)**, *University of Verona*, Italy
Up to 3 simultaneous courses (Web Applications, Algorithms for Bioinformatics, Programming Laboratory II); thesis supervision; research on temporal constraint networks.

Mar 2018–Mar 2023 **Chief Executive Officer**, *MedBrains s.r.l.*, Italy
The company is a spin-off of University of Verona

Mar 2018–Mar 2025 **Founding member**, *MedBrains s.r.l.*, Italy
The company is a spin-off of University of Verona

Nov 2000–Sep 2019 **Assistant Professor in Computer Science**, *University of Verona*, Italy
1–2 courses per year (Computational Complexity, Advanced Algorithms, Database Lab., Software Engineering); thesis supervision; research on temporal constraint networks, temporal business processes, and biomedical applications.

Jan 2002–Jun 2011 **Senior Consultant and Researcher**, *University of Verona*, Italy
Project "WebIntegrato"

May 1997–May 1999 **Post-doctoral Fellowship**, *University of Verona*, Italy

Previous Non-Academic Experience

Aug 1998–Oct 2000 **Computer Labs Manager (permanent staff, VIII level)**, *University of Verona*, Italy

Jan 1996–Dec 1996 **IT Consultant**, *University of Verona*, Italy
Faculty of Economics

Honours, Awards and Grants

Feb 2023 — **Full Professor Qualification in ING 09/H1 scientific field (Computer Science Engineering)**, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy
National Scientific Qualification

2020 — **Grant for one post Ph.D. position**, *University of Verona*, Italy
Grant of 30K euro for the project "Extending Uncertainty in Temporal Constraint Networks (EUTCN)".

Nov 2019 — **JOINT PROJECTS 2018 Grant**, *University of Verona & WINWINIT srl*, Italy
Grant of 25K euro for the project "Advanced solutions for digital marketplace".

Jul 2019 — **Industry Research Grant**, *RTC spa*, Italy
Grant of 35K euro for the project "Impatto di soluzioni ad alta affidabilità per clustering di DBMS per supportare registratori di cassa virtuali".

Feb 2019 — **GNCS Grant (Gruppo Nazionale per il Calcolo Scientifico)**, *Istituto Nazionale di Alta Matematica Francesco Severi*, Italy
Grant for the research project "Distributed Optimization for Large-scale Statistical Modeling".

Mar 2018 — **Associate Professor Qualification in INF 01/B1 scientific field (Computer Science)**, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy
National Scientific Qualification

Nov 2017 — **FFBAR Grant (Finanziamento delle attività base di ricerca)**, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy
Grant for supporting research activity.

Apr 2017 — **Associate Professor Qualification in ING 09/H1 scientific field (Computer Science Engineering)**, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy
National Scientific Qualification

May 2015 — **CooperInt Grant**, *University of Verona*, Italy
Grant for the development of a research collaboration at Vassar College (USA).

Nov 2014 — **Professional Award**, *University of Verona*, Italy
For professional achievements during the 2010–2012 period.

Sep 2014 — **IEEE Appreciation**, *IEEE International Conference on Healthcare Informatics 2014 (ICHI 2014)*, Italy
Local Arrangements Chair.

Jun 2014 — **CooperInt Grant**, *University of Verona*, Italy
Grant for the development of a research collaboration at Vassar College (USA).

2004,'06,'09,'11–'14 — **Teaching Award**, *University of Verona*, Italy

Nov 2004–Nov 2006 — **Research Award**, *University of Verona*, Italy
For the successful application to PRIN 2004 grant, in addition to regular matching funds.

May 2005 — **Möbius Multimedia Lugano International Award**, *Città di Lugano e RSI*, Lugano, Switzerland
As project architect and analyst of the best Italian university website, http://www.moebiuslugano.ch.

Nov 2004–Nov 2006 — **PRIN Grant**, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy
Local Coordinator. Grant of "Programma di Ricerca scientifica di rilevante Interesse Nazionale" (PRIN) for the project "Supporto di granularità multiple e definite dall'utente nella gestione ed interrogazione di informazioni cliniche caratterizzate temporalmente", project #2004094558_003.

Nov 2003–Nov 2005 — **PRIN Grant**, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy
Researcher. Grant of "Programma di Ricerca scientifica di rilevante Interesse Nazionale" (PRIN) for the project "Rappresentazione e interrogazione via Web di informazione geografica eterogenea in formato vettoriale e raster caratterizzata da aspetti temporali", project # 2003018941_006.

Oct 1992–Oct 1993 **Research Fellowship**, *CNR*, Milan, Italy
Research Fellowship granted by the project "Progetto Finalizzato Sistemi Informatici e Calcolo Parallelo".

Research Activities

Bibliometric indicators
h-index: 22, total citations: 1337 (Google Scholar)
h-index: 18, total citations: 826 (Scopus) [as of June 10, 2026]

Research Interests

Research focuses on **temporal constraint representation and reasoning**, with emphasis on the study, extension, and verification of temporal constraint networks (STN, STNU, CSTN, CSTNU) and their application to temporal business processes and workflows. Contributions span computational complexity theory, design of efficient algorithms, and development of open-source software tools.

- *Study of New Models for Temporal Constraint Networks.*
  In 1991, Dechter et al. proposed Simple Temporal Networks (STNs) for reasoning about quantitative temporal constraints: a graph in which nodes represent time points and weighted edges represent linear constraints on temporal distances. The model allows efficient algorithms both for consistency verification and for incremental execution (scheduling), generating significant interest and numerous extensions [34].
  Vidal and Fargier (1997) introduced STNs with Uncertainty (STNU), in which the endpoint of some actions has uncertain (*contingent*) duration, set by the environment during execution. Morris and Muscettola (2001) demonstrated that the controllability of such networks can be verified efficiently. Tsamardinos et al. (2003) proposed Conditional STNs (CSTN), in which only nodes associated with conditions observed during execution need to be executed.
  For CSTNs, we refined the model by extending conditions to constraints [49], proved PSPACE-completeness of consistency [42], proposed semantics for managing observation delays with related algorithms [38, 41, 48, 46, 35], and analyzed extensions with non-linear constraints and Hyper Temporal Networks [10, 36, 52] and with decision nodes [43].
  In 2012, we proposed Conditional Simple Temporal Networks with Uncertainty (CSTNU) [59], combining contingent constraints and CSTN conditions. We developed controllability algorithms based on constraint propagation [39, 51, 56], proved PSPACE-completeness and reducibility to reachability in a Timed Game Automaton [42, 11, 53], and extended the model with resources [8], partially shrinkable uncertainty [40, 7], parameterized networks [32], and agile controllability [23], with applications to medical transportation scheduling [29].
  For STNUs, we addressed the *dispatchability* problem: finding a minimal equivalent network form for efficient real-time execution [30, 27, 25, 4, 31, 33, 1, 22], developed algorithms for identifying negative cycles in over-constrained networks [24], extended networks to probabilistic durations [26] and multi-agent settings [21]. Further contributions concern the optimal design of consistent STNs [54].
  The theoretical contributions are complemented by CSTNU Tool, an open-source Java library for graphically building, verifying consistency/controllability, and benchmarking temporal constraint networks of type STN, STNU, CSTN and CSTNU, implementing all published algorithms [6].

- **Modeling and verification of temporal processes using constraint networks.** Applying the theoretical models developed (STNU, CSTN, CSTNU), we proposed an advanced conceptual model for expressing temporal constraints in **workflows and business processes**: deadlines, min/max action durations, delays between actions, temporal authorizations, and data dependencies [13, 57, 12]. Algorithms for verifying temporal controllability at both design-time and run-time were developed, also applied to modular and reusable processes [61, 55, 50, 47, 9, 3]. Subsequent extensions introduced management of decision tasks and events in temporal BPMN models [37], verification under access-controlled conditional uncertainty [45, 44, 8], and agile controllability in business processes [28]. The theoretical contributions are complemented by the TimeAwareBPMN-js web tool for interactive modeling and verification of BPMN processes with temporal constraints [5].

Further research interests include:

- Studies on computational complexity correlation between neural networks and Ising spin glasses [17] and computational complexity of neuronal fiber–tracking problem [14].
- Studies on how the most used page rank (Google original *pagerank*) can be biased [62].
- Studies on how to model and represent data in different languages (internationalization) in data-intensive web applications [64].
- Computational complexity characterization of a graphical query language for the WWW [66].
- Computational complexity characterization of some discrete optimization problems when approximate solutions are determined by some neural network computational models [18, 19, 84].
- Implementation of neural network models as circuits [15, 65, 68, 70] and their applications to real problems [16].

Participation in Research Projects

Dec 2021–Dec 2023 — **Mitigation of the effects of environmental triggers on the outcomes of chronic respiratory diseases**, *University of Verona*, Italy
Researcher, University Project

Mar 2020–Dec 2021 — **INdAM 2020**, *INdAM*, Italy
Principal Investigator, "Automated Reasoning about Time in Medical and Business Applications".

2020 — **PRIN 2020**, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy
Researcher, PRIN Project "PROTECTION: PROcess modeling, managemenT, and mining for pandEmiC prevenTIon and cONtrol". *Positively Rated but not funded.*

Nov 2019–Nov 2020 — **JOINT PROJECTS 2018**, *University of Verona & WINWINIT srl*, Italy
Researcher, "Advanced solutions for digital marketplace".

Jul 2019–Jul 2020 — **Industry Research**, *RTC spa*, Italy
Manager, "Impatto di soluzioni ad alta affidabilità per clustering di DBMS per supportare registratori di cassa virtuali".

Feb 2019–Feb 2020 — **INdAM 2019**, *INdAM*, Italy
Researcher, "Distributed Optimization for Large-scale Statistical Modeling".

Mar 2018 — **PRIN 2017**, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy
Researcher, PRIN Project "DANTE: The integrateD mAnagement of cliNical daTa and procEsses: theory, methodologies and software tools". *Positively Rated but not funded.*

Jul 2016 — **PRIN 2015**, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy
Researcher, PRIN Project "ADMIRE: dAta-Driven Management of clInical pRocEsses: theory, methodologies and software tools". *Positively Rated but not funded.*

Jan 2013

An Integrative and Ubiquitous Healthcare Environment, Seventh Framework Programme (FP7), *European Commission (EC)*

Researcher. Definition and the submission of CARE-U STREP project proposal as member of the Coordinator Unit. *Positively Rated but not funded.*

Jan 2013

Process-Aware Healthcare Information Systems for Personalized and Flexible Patient-Oriented Services (ELDERS), Seventh Framework Programme (FP7), *European Commission (EC)*

Researcher. Definition and the submission of ELDERS STREP project proposal as member of the Coordinator Unit. *Positively Rated but not funded.*

Jul 2013

PRIN 2012, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy

Researcher, PRIN Project "Gestione integrata di dati e processi clinico-sanitari: teoria, metodologie e strumenti informatici". *Positively Rated but not funded.*

Jan 2012

Process-based Services (PROSE), Seventh Framework Programme (FP7), *European Commission (EC)*

Researcher. Definition and the submission of PROSE STREP project proposal as member of the Coordinator Unit. *Positively Rated but not funded.*

Jan 2011

Context-Aware Business prOceSS Execution (CABOSSE), Seventh Framework Programme (FP7), *European Commission (EC)*

Researcher. Definition and the submission of CABOSSE STREP project proposal as member of the Coordinator Unit. *Positively Rated but not funded.*

Jul 2012

PRIN 2010–2011, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy

Researcher, PRIN Project "Metodologie e strumenti informatici per la gestione integrata di dati e processi clinico-sanitari". *Positively Rated but not funded.*

Jul 2011

PRIN 2009, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy

Researcher, PRIN Project "Modellazione, gestione e analisi intelligente di processi clinici temporali", http://www.di.univr.it/?ent=progetto&id=3700.

Sep 2008

PRIN 2007, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy

Researcher, PRIN Project "Modellazione e gestione di aspetti temporali in workflow clinici", http://www.di.univr.it/?ent=progetto&id=3434.

Jan 2005–Dec 2005

Accesso integrato a informazione spazio-temporale, *University of Verona*, Italy

Researcher, University Project, http://www.di.univr.it/?ent=progetto&id=1317

Jan 2004–Dec 2004

Rappresentazione e interrogazione di dati spazio-temporali, *University of Verona*, Italy

Researcher, University Project, http://www.di.univr.it/?ent=progetto&id=961

Nov 2004–Nov 2006

PRIN 2004, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy

Local Coordinator, PRIN Project "Supporto di granularità multiple e definite dall'utente nella gestione ed interrogazione di informazioni cliniche caratterizzate temporalmente", # 2004094558_003, http://www.di.univr.it/?ent=progetto&id=2430.

Nov 2003–Nov 2005

PRIN 2003, *Italian Ministry of Education, Universities and Research (MIUR)*, Italy

Researcher, PRIN Project "Rappresentazione e interrogazione via Web di informazione geografica eterogenea in formato vettoriale e raster caratterizzata da aspetti temporali", # 2003018941_006, http://www.di.univr.it/?ent=progetto&id=745.

Jan 2002–Jan 2012

University Project "WebIntegrato", *University of Verona*, Italy

Senior Consultant and Researcher. The project aimed to develop a web application framework and a set of web applications to support the distributed management and publication of official information at the University of Verona by faculty and administrative staff. The overall system won the 2005 Möbius Multimedia Award as the best Italian university website, http://www.moebiuslugano.ch. The methodology for representing data language translations was published as a full paper at the 4th International Conference on Web Engineering, München, 2004 [64].

Editorial Activities

International Conferences and Workshops

2026 — Conference on Advanced Information Systems Engineering (CAiSE 2026), [20]
Workshops Co-chair

2022 — International Symposium on Temporal Representation and Reasoning (TIME 2022), https://time22.time-symposium.org
Program Committee Co-chair

2014 — IEEE International Conference on Healthcare Informatics 2014 (ICHI 2014)
Local Arrangements Chair

2014 — 21st International Symposium on Temporal Representation and Reasoning (TIME 2014)
Organization Co-Chair

2012 — International Workshop on Artificial Intelligence and NetMedicine (NETMED)
Program Committee Co-chair

Member for the following Organizing/Program Committees:

Since 2024 — European Conference on Artificial Intelligence (ECAI)
Program Committee member

Since 2021 — AAAI Conference on Artificial Intelligence (AAAI)
Program Committee member

Since 2021 — International Symposium on Temporal Representation and Reasoning (TIME)
Program Committee member

2017 — Artificial Intelligence International Conference (A2IC)
Program Committee member

2017 — International Symposium on Temporal Representation and Reasoning (TIME 2017)
Program Committee member

Since 2016 — International Conference on Agents and Artificial Intelligence (ICAART)
Program Committee member

2009 — Conference on Artificial Intelligence in Medicine (AIME)
Program Committee member

Reviewer for the following:

2011 — International Conference on Artificial Intelligence in Medicine (AIME)

2009 — Annual European Symposium on Algorithms (ESA)

2008 — International Conference on Frontier of Computer Science and Technology

2001–2003 — Symposium on Theoretical Aspects of Computer Science (STACS)

1993–1995 — Workshop on Neural Networks (WIRN)

Journals

Member of the following Journal Editorial Boards:

Since 2023 — Information
Associate Editor
https://www.mdpi.com/journal/information

2022–2023 — Information and Computation
Guest Editor Special Issue “Temporal Representation and Reasoning”
https://www.sciencedirect.com/journal/information-and-computation/special-issue/109S9FDW5TZ

2022–2024 Information Systems
Guest Editor Special Issue "Temporal Representation and Reasoning in data-intensive systems" [2]
https://www.sciencedirect.com/journal/information-systems/special-issue/10DQKT5RJJR

Reviewer:

Since 2023 ACM Transactions on Algorithms

Since 2022 Journal of Applied Non-Classical Logics

Since 2021 IEEE Transactions on Industrial Informatics

Since 2019 Journal of Artificial Intelligence Research

Since 2018 Information Sciences

Since 2017 Mathematical Reviews

2016–2022 International Journal of Automation and Computing IJAC
http://www.ijac.net/EN/column/column114.shtml

Since 2013 Transactions on Intelligent Systems and Technology (TIST)

Since 2010 Transactions on Autonomous and Adaptive Systems (TAAS)

2007–2008 IEEE Transactions on Neural Networks (TNN)

2000 Journal of Complexity

Talks

Talks at International Events

Paper talks:

I presented the following papers at international conferences/workshops: [24, 25, 26, 28, 37, 38, 54, 58, 60, 62, 63, 64, 67, 68, 70].

Talks at National Events

Paper talks:

I presented the following papers at national conferences/workshops: [65, 69, 71, 72].

Invited Talks

Feb 2026 **Roundtable: "Artificial Intelligence in the Pharmaceutical Sector: Challenges and Opportunities"**, *XVI Master's Program in Pharmacovigilance, Pharmacoepidemiology, Pharmacoeconomics, and Real-World Evidence*, University of Verona, Verona, Italy

Sep 2021 **Simple Temporal Networks: A Practical Foundation for Temporal Representation and Reasoning**, *28th International Symposium on Temporal Representation and Reasoning (TIME 2021) [34]*, Alpen-Adria University, Klagenfurt, Austria

Jul 2015 **Dealing with Temporal Business Processes: from Medical Applications to Checking Dynamic Controllability**, *TEWI-Kolloquium at Information and Communication Systems Group*, Alpen-Adria University, Klagenfurt, Austria

Apr 2015 **Simple Temporal Constraint Networks with Partially Shrinkable Uncertainty**, *Seminar for Artificial Intelligence and Knowledge Engineering Group*, Murcia University, Spain

Nov 2013 **Temporal Constraint Networks and Temporal Process Management: Some Recent Research Results**, *DBIS Seminar*, Ulm University, Germany

Visits

Apr 2018 — **Information and Communication Systems Group–University of Alpen-Adria**, *Klagenfurt*, Austria
Visiting Researcher

Dec 2016 — **Escuela de Ingeniería Informática–University of Las Palmas de Gran Canaria**, *Las Palmas de Gran Canaria*, Spain
Visiting Researcher

Jul 2015 — **Information and Communication Systems Group–University of Alpen-Adria**, *Klagenfurt*, Austria
Visiting Researcher

Apr 2015 — **Artificial Intelligence and Knowledge Engineering Group–University of Murcia**, *Murcia*, Spain
Visiting Researcher

Feb 2015–Mar 2015 — **Institute of Databases and Information Systems–University of Ulm**, *Ulm*, Germany
Visiting Researcher

Dec 2014 — **College of Engineering–Northeastern University**, *Boston, MA*, USA
Visiting Researcher

Oct 2014–Dec 2014 — **Department of Computer Science–Vassar College**, *Poughkeepsie, NY*, USA
Visiting Researcher

Nov 2013 — **Institute of Databases and Information Systems–Ulm University**, *Ulm*, Germany
Visiting Researcher

Sep 2012 — **Department of Computer Science–Vassar College**, *Poughkeepsie, NY*, USA
Visiting Researcher

Jul 2005 — **Department of Computer Science–Queen Mary, University of London**, *London*, UK
Visiting Researcher

International Collaborations

Since 2012 — **Luke Hunsberger**, *Department of Computer Science, Vassar College*, Poughkeepsie, NY, USA

Since 2015 — **Johann Eder**, *Information and Communication Systems Group, University of Klagenfurt*, Austria

2013–2019 — **Andreas Lanz**, *Institute of Databases and Information Systems, Ulm University*, Germany

2013–2019 — **Manfred Reichert**, *Institute of Databases and Information Systems, Ulm University*, Germany

Since 2025 — **Thierry Vidal, Frédéric Maris, Gauthier Picard**, *LAAS-CNRS / ENSEEIHT, Toulouse*, France

Teaching

Summary of Graduate & Undergraduate courses taught at University of Verona

Since 2025 — **Temporal Reasoning**, *Master's Degree in Artificial Intelligence*
One-semester course.

Since 2020 — **Algorithms for Bioinformatics**, *Laurea in Bioinformatica*
Two-semester course.

Since 2020 — **Programming Laboratory II**, *Laurea in Bioinformatica*
Two-semester course.

2020–2025 **Web Applications**, *Laurea Magistrale in Ingegneria e Scienze Informatiche*
One-semester course.

2017–2019 **Ingegneria del Software**, *Laurea in Informatica*
One-semester course.

2015–2019 **Laboratorio di Basi di Dati**, *Laurea in Informatica e Laurea in Bioinformatica*
Two courses. One-semester course.

2009–2014 **Complessità Computazionale**, *Laurea magistrale in Ingegneria e Scienze informatiche*
Core course. One-semester course.

2009 **Algoritmi Avanzati**, *Laurea magistrale in Ingegneria e Scienze informatiche*
Core course. One-semester course.

2007–2008 **Laboratorio di Algoritmi e Strutture Dati**, *Laurea in Informatica*
One-semester course.

2006–2008 **Algoritmi Avanzati**, *Laurea specialistica in Informatica*
One-semester course.

2002–2005 **Complessità Computazionale**, *Laurea specialistica in Informatica*
One-semester course.

2001 **Laboratorio di Basi di Dati e Web**, *Laurea in Informatica*
One-semester course.

2001 **Complessità Computazionale**, *Laurea specialistica in Informatica*
One-semester course.

2000–2001 **Laboratorio di Algoritmi e Strutture Dati**, *Laurea in Informatica*
One-semester course.

1996 **Laboratorio di Algoritmi e Strutture Dati**, *Laurea in Informatica*
One-semester course.

1995 **Circuiti Logici e Digitali**, *Laurea in Informatica*
15 hours.

Summary of Master & PhD courses taught at University of Verona

2019 **Temporal Constraint Networks**, *Dottorato in Informatica*
20 hours.

2018 **Constraint Networks**, *Dottorato in Informatica*
20 hours.

2004 **Complessità Computazionale**, *Dottorato in Informatica*
One-semester course.

2004–2006 **Network Operating Systems**, *Master in Progettazione e gestione di sistemi di rete*
One-semester course.

2001 **Progettazione e Realizzazione d'Ipertesti per Siti Web**, *Master in Tecnologie e formazione in rete*
One-semester course.

Summary of courses taught at other institutions

2018 **Introduction to the Analysis of Query Planning in PostgreSQL**, *Escuela de Ingeniería Informática–University of Las Palmas de Gran Canaria*, Las Palmas de Gran Canaria, Spain
Intensive course funded by Staff Mobility Teaching–Erasmus+ program.

2018 **Time in Information Systems (with Applications in Medicine)**, *Faculty of Technical Sciences–University of Alpen-Adria*, Klagenfurt, Austria
Intensive course on some aspects of temporal reasoning in information systems.

2016 **Introduction to the Analysis of Query Planning in PostgreSQL**, *Escuela de Ingeniería Informática–University of Las Palmas de Gran Canaria*, Las Palmas de Gran Canaria, Spain
Intensive course funded by Staff Mobility Teaching–Erasmus+ program.

1996 **Parallel Computational Models**, *ITIS G. Marconi*, Verona, Italy
Refresher course for high-school teachers, 16 hours.

1994 **Computational Models**, *ITIS G. Marconi*, Verona, Italy
Refresher course for high school teachers, 8 hours.

1991 **Neural Networks**, *ITIS G. Marconi*, Verona, Italy
Refresher course for high school teachers, 8 hours.

Advising

At University of Verona

Since 2000 Total number of undergraduate and graduate students supervised: 41

2005 **Alessandro Daducci**

Postdoctoral Fellow

2021–2022 **Mario Alberto Ocampo Pineda**

PhD Preliminary Defense

2016–2018 **Francesca Zerbato**

2012–2014 **Alberto Sabaini**

2011–2013 **Emad Samuel Malki Ebeid**

Doctoral or PhD thesis defense committees at other universities

2017 **Andreas Lanz**, *Institute of Databases and Information Systems at Ulm University*, Ulm, Germany

Service and Third Mission

At the University of Verona

Since Oct 2025 **Rector's Delegate for the Transition to Digital Intelligence**
The main coordination duties of the Delegate concern the following activities:
1. Enhancement, development and rationalization of IT services with particular attention to the HPC (High Performance Computing) center, official websites, and information-system support;
2. Adoption of digital tools and artificial intelligence-based solutions in teaching, research, and administrative processes;
3. Development of digital skills among students, faculty, and technical-administrative staff, in line with the most recent national and European reference frameworks;
4. Awareness-raising actions and initiatives on the topics of ethics, responsibility, and sustainability of digital technology;
5. Collaborations with public entities, private entities, and research institutions to strengthen the University's role in the field of digital innovation.

Since Oct 2025 **Member of the working committee for the 'Veneto Community for Scientific Computing (CONVECS)' project**
https://www.convecs.it/

Since Sep 2023 **Departmental Coordinator for IT Services**

Since Apr 2023 **Member of the Commission for the Evaluation of Teaching Assignments in the fields of Computer Science**

Since Apr 2023 **Member of the Quality Assurance (AQ) Committee of the Master's Degree Program in Artificial Intelligence (LMAI)**

Sep 2018–Dec 2019 **Scientific Supervisor**, *Project "Impresa 4.0 e Digital Transformation per le MPMI di Verona"*, University of Verona e Camera di Commercio I.A.A. di Verona, Italy

2018 **Lecturer**, *GoTo Science: "Dai Beatles ai vincoli temporali attraverso Bob Dylan"*, Verona
Lecturer at a GoTo Science meeting for spreading scientific culture to non-academic people.

2012–2016 **Academic Disciplinary Committee Member**
Elected by the members of the Academic Senate.

Since Jan 2012 **Computer Science PhD Committee Member**

Nov 2009–Oct 2012 **Academic Senate Member**
Elected by the Assistant Professors in Science and Engineering.

Nov 2009–Oct 2012 **University Standing Teaching Committee Member**
Elected by the members of the Academic Senate.

2008 **Tender Evaluation Committee Member**
for a 100 000€ procurement of computer servers.

Nov 2006–Oct 2009 **Academic Senate Member**
Elected by the Assistant Professors in Science and Engineering.

Nov 2006–Oct 2009 **University Standing Budget Committee Member**
Elected by the members of the Academic Senate.

2006 **Hiring Committee Member**
for one IT officer (D1 permanent staff category) position.

Nov 2004–Oct 2012 **Spin-Off Committee Member**, *Department of Computer Science*

Nov 2004–Oct 2010 **Assistant Professors' Representative**, *Faculty of Mathematical, Physical and Natural Sciences*
Elected by the Assistant Professors in Science and Engineering.

Jan 2004–Dec 2007 **Scientific Committee Member**, *Master in "Progettazione e gestione di sistemi di rete"*

Jan 2002–Jun 2011 **Senior Consultant and Researcher**, *Project "WebIntegrato"*, University of Verona , Italy

2002 **Hiring Committee Member**
for one IT technician (C1 permanent staff category) position.

2001 **Hiring Committee Member**
for one IT officer (D1 permanent staff category) position.

2000–2001 **Chair of a Tender Evaluation Committee**
for a 200 000€ procurement of computer equipment for the Computer Science Department labs.

1998–2000 **Chair of a University Committee**
for the design of the new university intranet network (200 000€ project budget).

Public Engagement

2023 **Speaker for the Computer Science Department**
University orientation meeting with approximately 300 final-year students from ITIS G. Marconi (Verona).

2023 **Speaker for the Computer Science Department**
University orientation meeting with approximately 300 final-year students from IISS COPERNICO-PASOLI (Verona).

2009 **Elected Hiring Committee Member**, *Free University of Bolzano*
for one Assistant Professor position in Computer Science.

2006 **Elected Hiring Committee Member**, *University of Milano-Statale*
for one Assistant Professor position in Computer Science.

2001 **Elected Hiring Committee Member**, *University of Milano-Statale*
for one Assistant Professor position in Computer Science.

Oct 1991–Sep 1992 **Required Military Service**, Pesaro, Italy

Publications

Refereed Journals

[1] L. Hunsberger and R. Posenato, "Recent Algorithmic Advances in Simple Temporal Networks with Uncertainty: from Faster Controllability Checking to Faster Execution," *Information and Computation*, vol. 307, article no. 105356, Nov. 2025. doi:10.1016/j.ic.2025.105356.

[2] A. Artikis, R. Posenato, and S. Tonetta, "Temporal representation and reasoning in data-intensive systems," *Information Systems*, vol. 122, article no. 102350, May 2024. doi:10.1016/j.is.2024.102350.

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Theses

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[85] R. Posenato, "Apprendimento di neuroni binari a soglia mediante esempi positivi," mathesis, Università degli Studi di Milano, Feb. 1991. Advisors: Alberto Bertoni, and Paola Campadelli.

Software

Since 2022 **TimeAwareBPMN-js Tool**, *https://gitlab.com/univr.di/TimeAwareBPMN*
Web application for editing and analyzing time-aware BPMN models.
The article [5] describes the tool in detail.

Since 2012 **CSTNU Tool**, *http://profs.scienze.univr.it/~posenato/software/cstnu*
Software suite for (i) graphically building/visualizing CSTN(U)s, (ii) checking the consistency/controllability of CSTN(U)s using different algorithms, and (iii) running benchmark experiments.
The article [6] describes CSTNU Tool in detail.

2015 **HyTN Tool**, *http://profs.scienze.univr.it/~posenato/software/hytn*
Software suite for (i) checking the consistency of HyTN(s) using different algorithms, and (ii) running benchmark experiments. The checking algorithms are described in [10] .

Verona, June 10, 2026 Roberto Posenato