Rosella Gennari–Associate Professor, as of 1.11.2022

Short CV with the most important academic milestones since PhD

Dr. Rosella Gennari is an associate professor in computer science at the Free University of Bozen-Bolzano (**unibz**), with national habilitations for the role of associate professor in INF/01, 01/B1 and ING/INF, 09/H1. Her research work and teaching is in Human Computer/Machine Interaction, with a focus on interaction design and physical computing. Gennari (co-)authored projects such as LODE (2009-2010), CRESCO, DARE, GAPH, GOST, SOfAa, and TERENCE (2010-2013), an FP7 EU technology-enhanced learning project, which received excellence marks from the European Commission for its scientific results and impact on society. In all the aforementioned projects, Gennari involved students, teachers, and all relevant stakeholders. She also acts as (co-)chair or associate chair of international conferences, for interaction design, physical computing, technology enhanced learning (e.g., IDC, MIS4TEL), and she is regularly invited to serve as reviewer for international conferences in her areas of research, such as INTERACT, UMAP, MUM, CHI, CHI-Play, TEI, IDC, as well as journals, such as MTAP (Springer), Human Computer Behaviour (Elsevier), Journal of Child-Computer Interaction (Elsevier), Human Computer Studies (Elsevier). Gennari has more than 100 peer-reviewed publications in the area of Human Computer/Machine Interaction. She is editor of c. 12 Springer/ACM monographs for the proceedings of international conferences, which Gennari co-chaired. She has served as Guest Editor for several journals (e.g., MTAP, IxD&A, IJTEL). She currently serves as Associate Chair for the Journal of Child-Computer Interaction (Elsevier).

Research topics

After working in knowledge representation, with a focus on automated reasoning, the research interests of Gennari gradually shifted towards Human Computer/Machine. The research activities of Gennari enabled her to strengthen the role of unibz in Human Computer/Machine Interaction, at national and international level, and to initiate **novel research** directions specifically concerning **interaction design** and **physical computing** with/for end users, e.g., for smart educational games, smart schools. Gennari also conducts research in **technology enhanced learning**, with a learner centred approach.

Research roles and management

An **interdisciplinary team** is essential for her work, e.g., for designing and/or assessing technology with/for end users. Gennari has been **coordinating** small-size interdisciplinary teams with RTDs, ARs and PhD students for longer than 10 years in Human Computer/Machine Interaction research activities. She acts as (co-)**chair** or associate chair of international conferences (e.g., IDC, MIS4TEL), and she is regularly invited to serve as reviewer for international conferences in her areas of research, such as INTERACT, UMAP, MUM, CHI, TEI, IDC, as well as journals, such as MTAP (Springer), Human Computer Behaviour (Elsevier), Journal of Child-Computer Interaction (Elsevier), Journal of Human Computer Studies (Elsevier). Gennari is **editor** of more than 12 Springer/ACM monographs for the proceedings of international conferences, which Gennari co-chaired. She has served as Guest Editor for several jouirnals (e.g., MTAP, IxD&A, IJTEL). She currently serves as **Associate Chair** for the Journal of Child-Computer Interaction (Elsevier).

Main research networks, projects and collaborations

Due to the nature of her research and work, Gennari has developed an **interdisciplinary network** of research colleagues from **different fields** (e.g., cognitive psychology, educational psychology, pedagogy, health informatics, evidence-based medicine, industrial engineering, industrial design, visual design, electronics engineering, physics) and she often collaborates with research teams from **different countries** (e.g., Germany, the Netherlands, Spain, Norway, Finland, UK, USA, Canada), e.g., as in the MAKE A DIFFERENCE network she was involved in.

Thanks to such networks, Gennari has worked on **project** proposals and **managed research personnel and teams** across boundaries—cultural and geographical.

In the latest 16 years, she has managed projects for more than € 500.000 for and on behalf of unibz. Examples are as follows. From 01-03-2009 to 30-06-2011. Gennnari was Principal Investigator for unibz of the research project "LOgic-based web tool for DEaf children" (LODE), commissioned and funded by the private bank association CARITRO. From 01-10-2010 to 30-09-2013. Gennari wrote and was the Scientific & Technological Coordinator, as well as the work package leader and Principal Investigator for unibz, of the 12-partner TERENCE FP7 ICT STREP European Project, GA 257410.

Gennari also has initiated and managed **collaboration agreements** with universities, research centres, spin-offs, at both national and international level on the behalf of unibz, e.g., *Politecnico di Milano*, University Ca' Foscari of Venice, University of Salerno, the Perlatecnica spin-off. She has also several international interdisciplinary-research collaborations, e.g., with the BISITE group and Prof. Fernando de la Prieta of the University of Salamanca, Spain, with the computer-science didactics centre led by Prof. Andreas Bollin at Klagenfurt Universität, Austria.

Main didactic activities
By its very nature, the **research** of Gennari shapes and is **transferred into her didactics**, which enables her to embed the latest research findings into course offerings. Gennari is active at unibz in terms of **teaching** and **supervision** of students.

For instance, in 2019–2020, 2020–2021, 2021–2022, Gennari initiated and taught the Computer Programming course (CP, 90 hours, 9 credits) for 1st year students of the Master's course in Applied Linguistics of the Faculty of Education of unibz. The course was the first of its kind and, along the years, Gennari adapted it to students' needs via an innovative learner-centred approach.
She also initiated and has been regularly assigned the Maker Lab (currently of 30 hours, 3 credits) of the Bachelor's course in Applied Computer Science at the Faculty of Computer Science of unibz. This is highly innovative, and it was designed, assessed and revised with an ad-hoc novel learning method and material along the years. The course's goal became to teach how physical computing can help design cyber-physical prototypes with a **human-centred** approach. It adopts a workshop-format, with students designing (i.e., empathising, ideating, programming, prototyping) smart solutions, which they publicly present and discuss.

Students, attending her courses, reported good or very good evaluation results on average.
Gennari has also been supervising > 10 PhD and Master students from 2006, who all **successfully** completed their study courses, e.g., Alessandra Melonio currently RTD-senior at the University Ca' Foscari of Venice, Mehdi Rizvi currently research fellow at Heriot Watt University of Edinburgh.
She regularly prepares teaching material for her students and participates in **PhD committees** as member and examiner.

Main academic services and third-mission activities
Gennari sits in **academic committees** and **boards** at unibz. For instance, she serves as member of the PhD Committee in Computer Science of unibz. Gennari was elected and served, for two terms of office, as representative for RTD employees at the Faculty Council, e.g., in 2019–2022.
She has been acting as student tutor, in 2005–2008 and again starting in 2021.
Gennari participated actively in an extraordinary teaching committee for analysing the requirements of the Faculty of Computer Science of unibz with respect to teaching in the COVID19 pandemic era and in hybrid or distance modality.
She is one of the local representatives in the CINI network *Informatica e Scuola* on the behalf of unibz for computer-science education initiatives, especially for teachers (https://www.consorzio-cini.it/index.php/it/lab-informatica-e-scuola/organizzazione-e-nodi).

Moreover, she created mini-lectures for school teachers during the COVID-19 pandemic. Specifically, in summer 2020, answering a request by Prof. Baroncelli, Didactics Vice-Rector, Gennari recorded a series of mini-lectures for the **life-long learning research Youtube channel** of unibz. They aimed at transferring relevant research findings in Human Computer/Machine Interaction for designing online learning material. They are employed by teachers for their teaching activities and are promoted by the Education Superintendency of the Province of Bozen-Bolzano on their institutional web site for teachers: https://www.provincia.bz.it/formazione-lingue/didattica-formazione-docenti/indicazioni.asp.

In general, **her research naturally intermixes with third-mission activities** in the local, national, or international contexts. Third-mission activities unveil new research spaces. At the same time, they enable Gennari to **transfer research knowledge** and technology to enterprises, schools and citizens in general.
For instance, Gennari has been active in the framing of the Bitz Fablab and managing activities for Bitz for students and citizens, bringing therein her knowledge and skills in physical computing and design. Moreover, starting in 2010, she has established close contacts with schools and education authorities in the local area. Thanks to such collaborations, Gennari and her team engaged children, teens, teachers, and schools in innovative computer-science education and STEAM activities, gravitating around interaction design and physical computing for people, which led to the Digital Camps for Learners, third-mission activities for children, teens, teachers and schools, which are still on-going, besides to courses supported by "*Sovrintendenza Scolastica Italiana*" of the Province of Bozen-Bolzano concerning computer-science education for in-service teachers in 2021–2022, 2022–2023, with Dr. Andrea Bonani.
There are > 10 news-press articles or radio interviews about her third-mission activities.

Research publications
Gennari has more than 100 peer-reviewed publications in the area of Human Computer/Machine Interaction. Except for editorials in monographs or journals, her publications are classified as peer-reviewed in **international** journals or conferences. Her publication rate shows a **continuous coherent temporal and quality growth**, e.g., an increase in journal publications. In her publications, Gennari gave **major independent** contributions, e.g., (1) either as leading author or major contributor in the technology/research design and data processing, (2) or as supervisor of PhD research, usually, when she is among the last authors.
For further information or peer-reviewed publications, **Scopus** or **ResearchGate** can be consulted:

- Her Scopus author page is <https://www.scopus.com/authid/detail.uri?authorId=55797199400>.
- At ResearchGate, she can be found at <https://www.researchgate.net/profile/Rosella_Gennari>.
- Her Google Scholar profile is <https://scholar.google.it/citations?user=l9JnvKwAAAAJ&hl=en>.

The ORCID identifier of Gennari is <0000-0003-0063-0996>.

Language competence

Language	Reading	Listening	Speaking	Writing
English	C1	C1	C1	C1
Italian	native speaker	native speaker	native speaker	native speaker
German	B2	B2	B1	B1
Dutch	A2	A2	A2	A2