



# Giuseppe Desolda

**Date of birth:** 19/08/1983 | **Nationality:** Italian | **Gender:** Male |

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## WORK EXPERIENCE

06/02/2022 – CURRENT

**ASSISTANT PROFESSOR (RICERCATORE A TEMPO DETERMINATO DI TIPO B)** COMPUTER SCIENCE DEPT., UNIVERSITY OF BARI

16/02/2020 – 05/02/2022

**ASSISTANT PROFESSOR (RICERCATORE A TEMPO DETERMINATO DI TIPO A)** COMPUTER SCIENCE DEPT., UNIVERSITY OF BARI

15/06/2012 – 13/02/2020

**RESEARCH FELLOW (ASSEGNISTA DI RICERCA)** COMPUTER SCIENCE DEPT., UNIVERSITY OF BARI

5 research grants as research fellow in the periods: 15/3/19 - 14/3/20; 27/6/18 - 26/2/19; 15/3/17 - 14/3/18; 1/4/16 - 31/3/17; 16/6/12 - 31/3/13)

## CURRENT POSITIONS

- Qualification to Associate Professor in 09/H1 (SSD ING/INF05) sector in the ASN (Abilitazione Scientifica Nazionale), the Italian scientific qualification system, valid from 6/01/2020 to 16/01/2029.
- Qualification to Associate Professor in 01/B1 (SSD INF/01) sector in the ASN (Abilitazione Scientifica Nazionale), the Italian scientific qualification system, valid from 07/08/2018 to 07/08/2027.
- Coordinator of the research activities on "Novel Interaction Techniques", "Internet of Things", "Usable Security" at the IVU Lab at the Computer Science Dept., University of Bari
- Member of the Italian working group for usability and UX (Gruppo di Lavoro per l'Usabilità e user eXperience - GLUX) of the Department of Public Service, Presidency of the Council of Ministers.
- Member of the Interdepartmental Center for Research in Telemedicine (CITEL) at the University of Bari.
- Member of IFIP Working Group 2.7/13.4 on User Interface Engineering
- Member of ACM (Membership record 7869937), SIGCHI and SIGCHI Italy.
- Member of CINI (Consorzio Interuniversitario Nazionale per l'Informatica) for "Smart Cities" and "Big Data" laboratories.
- Member of GRIN (GRuppo di INformatica).

## EDUCATION AND TRAINING

31/03/2013 – 14/04/2016

**PH.D. IN COMPUTER SCIENCE** University of Bari Aldo Moro

30/09/2009 – 18/07/2011

**MASTER'S DEGREE IN COMPUTER SCIENCE WITH MARK 110/110 CUM LAUDE** University of Bari Aldo Moro

30/09/2006 – 20/07/2009

**BACHELOR'S DEGREE IN COMPUTER SCIENCE (110/110 CUM LAUDE)** University of Bari Aldo Moro

## TEACHING

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31/12/2017 – CURRENT

### Ph.D. courses

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- A.A. 2020-2021 – Human-Computer Interaction for AI (1 CFU), Ph.D. course in Computer Science and Mathematics, XXXVI cycle, University of Bari.
- A.A. 2018/2019 – Usable Security, Ph.D. course in Computer Science, XXXIV cycle, University of Bari.
- A.A. 2017/2018 – IoT Technologies and Tools for Configuring Smart Environments, Ph.D. course in Computer Science, XXXIII cycle, University of Bari.

31/12/2019 – CURRENT

### Master courses

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- A.A. 2021/2022, 2020/2021 - IoT Security (2 CFU) together with Prof. Antonio Piccinno (4 CFU), Master of Computer Science, Curriculum Security Engineering, University of Bari.
- A.A. 2020/2021 - Internet of Things (6 CFU), Master of Computer Science, Curriculum Software and Services Engineering, University of Bari.
- A.A. 2023/2024, 2022/2023, 2021/2022, 2020/2021 – Mobile Security (Sicurezza in ambienti mobile) (1 CFU) together with Prof. Paolo Buono (5 CFU), Master of Cybersecurity, University of Bari.

31/12/2015 – CURRENT

### Bachelor courses

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- A.A. 2023/2024 Programming (Programmazione) (12 CFU), Bachelor of Computer Science and Digital Communication, University of Bari.
- A.A. 2023/2024, 2022/2023, 2021/2022, 2020/2021 – Web programming (Programmazione per il Web) (6 CFU), Bachelor of Computer Science and Digital Communication, University of Bari.
- A.A. 2019/2020, A.A. 2018/2019 - Web programming (Programmazione per il Web) (9 CFU) Bachelor of Computer Science and Digital Communication, University of Bari.
- A.A. 2017/2018, A.A. 2016/2017 - Informatics and geological data analysis (Informatica e analisi dei dati geologici) - Mod I (6 CFU), Bachelor of Science in Geological Sciences, University of Bari.

### Supervisor

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He is/was supervisor of degree theses for students on three-year and master's degree courses at the University of Bari; main topics: end-user development, interaction with IoT devices, cybersecurity and HCI (usable security), interaction with artificial intelligence systems (Human-Centred Artificial Intelligence), usability and UX.

## RESEARCH ACTIVITIES

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### Research interests and bibliometric indices

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His current interests are on Human-Computer Interaction, specifically on:

1. Usability engineering
2. User eXperience and usability
3. Human-Centered Artificial Intelligence
4. End-User Development
5. Internet of Things

h-index: 18 (Scholar), 16 (Scopus). Total citations: 1364 (Scholar), 910 (Scopus)

### Editorial activity

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*Associate Editor* for the international journal IEEE Access.

*Reviewer for the following journals:* ACM Transaction on Human-Computer Interaction (TOCHI), ACM Transactions on the Web (TWEB), Behaviour & Information Technology (BIT), European Alliance for Innovation (EAI), Future Generation Computer Systems (FGCS), IEEE Access, IEEE Journal of Biomedical and Health Informatics (J-BHI), IET Software, International Journal of Human-Computer Studies (IJHCS), Journal of Systems and Software (JSS), Journal of Visual Languages and Computing (JVLC), Mobile Information Systems, Multimedia Tools and Applications (MTAP), PLOS ONE, Sensor

### Main scientific conference organization

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- Long Papers Co-Chair at AVI (ACM International Conference on Advanced Visual Interfaces) 2024
- Panel Co-Chair at ECSCW (European Conference on Computer-Supported Cooperative Work) 2024
- Workshop and tutorial Co-chair at AVI (International Conference On Advanced Visual Interfaces) 2022
- Short Paper Co-Chair at INTERACT 2021
- Demo Co-Chair at INTERACT 2019
- Proceeding Co-Chair at PerDis (ACM International Symposium on Pervasive Displays) 2019

- Poster e Demo Co-Chair at AVI (ACM International Conference On Advanced Visual Interfaces) 2018
- Publicity Chair at AVI 2016 (ACM International Conference On Advanced Visual Interfaces) 2016

### Associate Chair for scientific conference

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- DIS (Designing Interactive Systems) 2022
- CHI (Conference on Human Factors in Computing Systems) 2021, 2022, 2023
- NordiCHI (Nordic forum for Human-Computer Interaction) 2020
- IFIP International Conference on Human-Computer Interaction (INTERACT) 2019, 2023

### Main scientific conference organization committee

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- AVI (ACM International Conference On Advanced Visual Interfaces) 2016, 2018, 2020
- CHIItaly (Biannual Conference of the Italian SIGCHI Chapter) 2017, 2019, 2021, 2023
- CHIGreece (International Conference of the ACM Greek SIGCHI Chapter) 2021, 2023
- CoopIS (International Conference on Cooperative Information Systems) 2019, 2020, 2022
- ICWE (International Conference on Web Engineering) 2017, 2019
- IE (International Conference on Intelligent Environments) 2018, 2021
- INTERACT 2019
- IS-EUD (International Symposium on End-User Development) 2017, 2019, 2021, 2023
- ITASEC (Italian Conference on Cybersecurity) 2023, 2024
- IUI (ACM International Conference on Intelligent User Interfaces) 2020
- HCII (International Conference on. Human-Computer Interaction) 2024
- MobileHCI (ACM International Conference on Mobile and Human-Computer Interaction) 2023
- MUM (International Conference on Mobile and Ubiquitous Multimedia) 2018, 2019, 2021
- PerDis (ACM International Symposium on Pervasive Displays) 2019

### Invited presentations at international scientific conferences

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ITASEC 2023, SECURE 2023, II International Workshop on EMPATHY (2021); International Workshop on EMPATHY (2020); I- CITIES 2020; INTERACT 2019; (HCII) 2019; (CHI) 2019 – Workshop “New Directions for the IoT: Automate, Share, Build and Care”; (CHI) 2018; International Conference on Advanced Visual Interfaces (AVI) 2016, 2018, 2020, 2022; (ICWE) 2017; (DMS) 2016; (SEBD) 2016; (ICWE) 2015; (IIMSS) 2015; (IFKAD) 2015; (IS-EUD) 2015; (ICWE) 2014; CHIItaly 2013.

### Invited presentations at national conferences

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- Art & Science across Italy, 8/2/2021. The project of alternation school work, organized by the National Institute of Nuclear Physics (INFN) and CERN of Genova.
- World Usability Day 2020, Turin, 12/11/2020.
- FORUM PA 2019, Rome, May 14-16, 2019.
- "Buone interazioni" conference, Rome, 10/9/2017.
- FORUM PA 2017, Rome, May 23-25, 2017.
- FORUM PA 2016, Rome, 26/5/2016.

### Contributions to PhD

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#### *Member of the doctoral committee*

- Computer Science and Mathematics, XXXVIII cycle, Uniba.
- Computer Science and Mathematics, XXXIX cycle, Uniba.

#### *Tutor and co-tutor of Ph.D. students:*

- Tutor of Andrea Esposito, XXXVIII cycle, Ph.D. Programme in Computer Science and Mathematics. Research Area: Human-Centered Artificial Intelligence
- Tutor of Francesco Greco, XXXVIII cycle, Ph.D. Programme in Computer Science and Mathematics. Research Area: Usable Security
- Co-tutor of Saltarella Marco, XXXV cycle, Ph.D. Programme in Computer Science and Mathematics. Research area: Usable Security. Tutor: Prof.ssa Rosa Lanzilotti
- Co-tutor of Aneke Joseph Ogochukwu, XXXIV cycle, Ph.D. Programme in Computer Science and Mathematics. Research area: Human-Computer Interaction and Cybersecurity. Tutor: Prof. Carmelo Ardito.

#### *Member of the evaluation committee*

- Sohail Qaisar, XXXIX cycle, PhD Programme in Computer Science and Mathematics, Uniba.
- De Vincentiis Mirko, cycle XXXVII, PhD Programme in Computer Science and Mathematics, Uniba.
- Gigante Domenico, XXXVII cycle, PhD Programme in Computer Science and Mathematics, Uniba.

#### *External reviewer*

- Breve Bernardo, XXXV Cycle, PhD in Computer Science, Curriculum of Internet of Things and Smart Technologies. Department of Computer Science, University of Salerno. Examination held on 20/3/2023.

## RESEARCH ACTIVITIES IN FOREIGN UNIVERSITIES

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19/09/2014 – 01/09/2020

### Invited visiting researcher

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- 2/9/2019 – 2/9/2020, Invited visiting researcher. Hertfordshire University, UK.
- 23/1/2018 – 22/2/2018, Invited visiting researcher, Hertfordshire University, UK.
- 26/9/2017- 26/10/2017, Invited visiting researcher, Hertfordshire University, UK.
- 1/7/2017 – 30/7/2017, Invited academic visitor, Brunel University of London, UK.
- 20/9/2014 – 20/12/2014, Invited visiting researcher, University College London (UCL), UK.

19/07/2014 – 30/07/2021

### Teaching at international schools

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- 5/2021 - 7-2021 - Lecturer, by invitation, for the summer school "Foreign Training Program 2020-21", organized by the Indian Institute of Technology (IIT) Kharagpur.
- 20.07.2014 - 02.08.2014 teacher and tutor at the *SURGEOM* summer school: (ERASMUS Intensive Programme), Linz (Austria).

24/07/2017 – 10/01/2022

### Invited seminars

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- 11/1/2022, King's College London (remote), title: "How cybersecurity is exploiting human factors to scam users? Lessons learned in phishing attacks"
- 20/2/2018, Sheffield Hallam University, title: "Empowering Cultural Heritage Experts to Design Smart Environments".
- 25/1/2018, University of Hertfordshire, title: "Not yet another smartphone app for museums: can we empower cultural heritage experts to design smart environments?"
- 25/7/2017, University of Cambridge, title: "Not yet another smartphone app for museums: can we empower cultural heritage experts to design smart environments?"

## RESEARCH PROJECTS

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### Roles of responsibility

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#### PRIN 2022 PNRR: DAMOCLES

Role: Principal investigator of the entire research project and head of the research unit at the University of Bari.  
Project title: Detection And Mitigation Of Cyber attacks that exploit human vulnerabilities (DAMOCLES).  
Total funding received from MUR: € 257,612  
Uniba unit budget: € 88,997

#### PRIN 2022: DevProDev

Role: Substitute principal investigator of the entire research project and head of the research unit at the University of Bari.  
Project title: Profiling Software Developers for Developer-Centered Recommender Systems (DevProDev).  
Funding received from MUR: € 226,407  
Uniba unit budget: € 73,560

#### PNRR SERICS: Supply Chain Attack Avoidance (SCAI) Project - Spoke 6

Role: Work Package leader of SCAI WP1 - 'Securing the Software Process'  
Project financed with PNRR funds and SERICS (Security and Rights In the CyberSpace) partnership.

### Activities carried out in research projects

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#### SIMPLE (Sistemi Integrati autoMatizzati Per la coltivazione Indoor) 2020 -2022, funded by the Apulia Region.

Role: Working unit manager for the activities of "Design and development of the automated plant subsystem".

#### LIFT (Learning Intelligent Factory based on information Technologies) 2020 - 2023, funded by MISE.

Role: Working unit manager for State of the Art and State of the Practice review activities.

#### EMPATHY, 2019 - 2021: PRIN (Projects of Significant National Interest) funded by MIUR.

Role: Working unit manager for the development of a web platform for customizing smart interactive environments.

#### eGLU-Box PRO, 2019 - 2020: funded by the Ministry of Economic Development.

Role: Working unit manager for the extension of eGLU-BOX PA with new visualization techniques and chatbots.

#### eGLU-BOX PA, 2018 - 2019: funded by the Ministry of Economic Development.

Role: Working unit manager for the re-engineering of UTAssistant for ISO 25010 certification.

#### PA++ (for a + mobile and + usable Public Administration), 2016-2017. Funded by the Ministry of Economic Development

Role: Working unit manager for the design and development of a Web platform, called UTAssistant, to perform usability analysis of websites in a semi-automatic way.

#### PON VINCENTE "A Virtual collective INtelligenCe ENvironment to develop sustainable Technology Entrepreneurship ecosystems", 2012-2015

Role: Working unit manager for the activity of design and development of a Web platform for the composition of data sources through a composition paradigm suitable for non-computer users.

#### PON LOGIN (LOGistica INtegrata), 2012-201

Role: Working unit manager for the activity of study of Models for the Web Interface Layer

**PON DSE** (Digital Services Ecosystem), 2013-2016.

Role: design and execution of experiments in Telemedicinescription...

## ● **THIRD MISSION**

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### **Main activities of third mission**

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Member since 2015 of the GLU-X (Gruppo di Lavoro per l'Usabilità e la User eXperience or "Usability and UX Working Group" in English), a working group set up by the Italian Ministry of Public Administration, which aims at developing a culture of usability and UX in the Italian public administration. Among the other activities within GLU, he coordinated and performed the design and development of eGLU Box PA, a web-based platform aiming at supporting public administration staff in carrying out usability tests to improve the quality of the websites accessed by citizens. eGLU Box is certified ISO 25010.

Research collaboration with the department "Products & Innovations, Technology", SAP SE, Walldorf, Germany, on the topic "Transformative User eXperience"

Co-founder and Vice President of the Board of Directors of "LARE Srl", spin-off of UNIBA, a company that operated in the field of telemedicine and teleassistance from 2013 to 2017.

### **Teaching in institutions**

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- From 2019, teachers at the ITS (Istituti Tecnici Superiori) Apulian Digital Maker for the course: "Fundamentals of programming" (50 hours), "UX and user interfaces" (40 hours), "AngularJS" (20 hours), "Internet of Things" (50 hours) e "Sviluppo Web e CMS" (25 hours).
- March 31, 2022 teacher of the course "Tutorial course for the use of eGLU-box PA 1.0", organized by the Department of Public Function (DFP), and the General Directorate for Communications Technology and Information Security - Higher Institute of Communications and Information Technology (DGTCISI-ISCTI), Italian Ministry of Economic Development (MISE) and Conference of Italian University Rectors (CRUI)
- October 28/29, 2021 teacher of the course "Tutorial course for the use of eGLU-box PA 1.0", organized by ISCOM, DFP, MISE
- October 15, 2020 lecturer of the "Corso di perfezionamento per l'uso di eGLU-box PA 1.0", organized by Higher Institute of Communications and Information Technology (ISCOM), MISE, DFP.
- 17/6/2019 teacher of the course "Siti e servizi online delle PA facili da usare" organized by ISCOM, DFP and MISE; it was valid for the release of 3 Professional Training Credits (CFP) recognized by CNI (National Council of Engineers).
- December 13, 2018, teacher of the course "Corso di perfezionamento per l'uso di eGLU-box PA 1.0" organized by ISCOM, DFP and MISE.
- November 24-26, 2017, teacher of the course "Introduzione all'uso del protocollo eGLU 2.1 e eGLU-M" course organized by ISCOM and MISE.

## ● **AWARDS**

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### **Awards received during the academic activity**

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- Winner of the REFIN (REsearch For INnovation) project promoted by Regione Puglia. The research project he presented was ranked in 6th position among more than 1000 project ideas.
- Selected by the Scientific Committee of the Heidelberg Laureate Forum (HLF) Foundation as one of the 200 most qualified young researchers in the field of mathematics and computer science admitted to the HLF organized from September 22 to 27, 2019.
- Award "10X10: 100 PROJECTS TO CHANGE PA" for the UTAssistant platform, presented at the FORUM PA 2017 conference.
- Winner of the "Rapid Mashup Challenge" organized during the International Conference on Web Engineering (ICWE) 2015.

## ● **DECLARATION**

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### **Declaration**

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I authorize the processing of my personal data in the cv in accordance with Legislative Decree No. 196 of June 30, 2003 "Code on the Protection of Personal Data" and Article 13 of the GDPR (EU Regulation 2016/679).