

## PERSONAL INFORMATION

## STĂNICĂ Iulia-Cristina

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## PROFESSIONAL EXPERIENCE

October 2025 - Present

**Associate professor**

National University of Science and Technology POLITEHNICA Bucharest, Faculty of Engineering in Foreign Languages (FILS)

- **Coordinator** of specialization Internet of Things, Computers and Information Technology, French
- Beneficiary of **merit gradation** for teaching activities (2023-present)
- **Subjects taught in French and/or English:** Formal Languages and Automata, Systems Engineering, Computer Graphics, Virtual and Augmented Reality, Application Development for Mobile Devices, Research and Innovation Management (master level)
- **Coordinator of over 60 bachelor and dissertation projects**
- Member of the committee for **the diploma exam** (Computers and Information Technology, Applied Electronics in French), of the research preparation and defense of the dissertation exam (Master of Management, Innovation and Technology of Collaborative Systems - MITSC)
- **Internship supervisor** and member of the commission for the presentation of the mandatory internship (Computers and Information Technology, Applied Electronics in French)
- Member of the study equivalence committee (**Erasmus+ mobilities**)
- **Member of the local admission committee** of FILS (bachelor's and master's degree MITSC)
- Assistant Editor at the Scientific Bulletin of the Bucharest Polytechnic - Series C: ELECTRICAL ENGINEERING AND COMPUTER SCIENCE
- Member of the Information Analysis Committee from the Verification Sheet for the Fulfillment of the CNATDCU Standards and the Merit Indicator 2025-2026 – Computers, Information Technology and Systems Engineering Committee.

December 2023 - Present

**Project Director / Research Project Manager**

National University of Science and Technology POLITEHNICA Bucharest

- **Director of national project GNAC ARUT UPB 2023** - beneficiary of a national research grant of within the "Research Projects for the Stimulation of Young Researchers within ARUT Universities", contract no. 15 / 06.10.2023; Project for the development of virtual reality exercises for neurorehabilitation (psychotherapy and cognitive rehabilitation)
- **Responsible for the internal project Invest UPB – Proof of Concept**, "Development of the Institutional Capacity of the Polytechnic University of Bucharest" (DECIP), contract no. 15970C / 09.04.2024; beneficiary of an internal research grant; Project "INREX-VR – Immersive Neurorehabilitation Exercises Using Virtual Reality and Telemedicine" for physiotherapy based on virtual reality and games
- Results obtained: one Q1 article, 3 WoS indexed articles, organization of a special session at the IEEE AQTR conference (Cluj-Napoca, 2024), organization and presentation of projects in 2 workshops, participation in the HLTH Europe event (large-scale scientific event related to healthcare and digital health), graduation of the Digital Health course at Harvard Business School

July 2022 – September 2025

**Assistant professor**

National University of Science and Technology POLITEHNICA Bucharest, Faculty of Engineering in Foreign Languages (FILS)

- **Subjects taught in French and/or English:** Data Structures and Algorithms in C++ C++, Programming Languages (Java), Object-Oriented Programming (Java), Systems Engineering, Computer Graphics, Software Development Methods and Techniques, Virtual and Augmented Reality, Research and Innovation Management (MITSC Master)

July 2023 - Present

**Expert auditor**

Commission des Titres d'Ingénieurs (CTI), Paris, France

- **International expert** in charge of the audit missions of French engineering universities to obtain accreditation

December 2022 - Present

### Visionary Entrepreneur

Royal Academy of Engineering, London, UK / Bucharest, Romania

- One of the 5 Romanians selected to take part in the **LIF Global 2023 innovation program**, with the INREX-VR (VR-based neurorehabilitation) project. Expert mentoring, ongoing support, access to an international network of innovators and mentors. access to resources, webinars and opportunities from the LIF online community
- Romania's representative at **LIF Community Week** Istanbul, October 2024
- **LIF Day grant winner** and main organizer of the event "LIF Day Romania: Artificial Intelligence for Enabling a Sustainable Future" (March 2024)
- Participation in entrepreneurship and technology events: Start your startup UNSTPB, Romanians are entrepreneurs (Nov 2023), DevCon conference 2023, Tech Transfer event (How to web conference). Interviews held on Euronews Romania and ProTV televisions (I Like IT).

June 2022 – June 2024

### Scientific Researcher

National University of Science and Technology POLITEHNICA Bucharest, Faculty of Engineering in Foreign Languages (FILS) and Faculty of Automation and Computers

- The national research projects CareProfSys (Smart Career Profiler based on a Semantic Data Fusion Framework) and Travee II (Virtual Therapist through Augmented Feedback for Neuromotor Recovery) – national project PTE

November 2018 – June 2022

### Teaching Assistant

National University of Science and Technology POLITEHNICA Bucharest, Faculty of Engineering in Foreign Languages (FILS), Computer and Information Technology Departments in French and English

- Data Structures and Algorithms in C++, Programming Languages (Java), Object-Oriented Programming (Java), Systems Engineering, Computer Graphics, Software Development Methods and Techniques, Virtual and Augmented Reality
- Winner of a **scholarship offered by ANIS** for innovation in education - Virtual and Augmented Reality laboratory oriented to the HealthTech field
- Formare profesională – "Pedagogical innovation workshops through ICT"

August 2016 – October 2021

### Research Assistant

National University of Science and Technology POLITEHNICA Bucharest, Faculty of Automation and Computers

- Android and iOS Developer, Research Project "Lib2Life – Revitalizing Libraries and Cultural Heritage through Advanced Technologies"
- Developer of 3D virtual environments in Unity, Horizon 2020 Research and Innovation Project, "Natural sense of vision through acoustics and haptics (Sound of Vision)", winner of the "Tech for Society" Award (ICT 2018); Participation in two workshops within the project: Reykjavik, Iceland (University of Iceland, June 2017) and Bucharest, Romania (Politehnica Bucharest, November 2017)

National University of Science and Technology POLITEHNICA Bucharest, Faculty of Engineering in Foreign Languages (FILS)

- CITE – Computing Innovation for Technology Entrepreneurship, the cooperation project in higher education, which had as its main purpose the improvement of the teaching and research components for the Master's programs of the Faculty of Engineering in Foreign Languages, UPB and Østfold University College, Norway

June 2015 – September 2015

### Intern, software development

Kepler-Rominfo (currently ALTEN Romania)

- Three-month internship as a software developer (web and Android development)

## EDUCATION AND TRAINING

May 2024 – June 2024

### Harvard Business School – Digital Health Certificate

The Harvard Online Digital Health course explores the opportunities and challenges faced by the widespread adoption of digital health, and explores innovative frameworks for thinking strategically about adopting and implementing digital transformation in an organization.

- 2018 - 2021 **National University of Science and Technology POLITEHNICA Bucharest, Faculty of Automation and Computers**  
**Doctoral studies** on "Innovative IT solutions based on virtual and augmented reality to improve quality of life and socio-collaborative study". Admission average 9.88. **The title of doctor obtained with the qualification "Excellent – Suma cum laudae"**
- 2016 - 2018 **National University of Science and Technology POLITEHNICA Bucharest, Faculty of Automatic Control and Computers and Faculty of Engineering in Foreign Languages (FILS)**  
**Master in Graphics, Multimedia and Virtual Reality (GMRV)**, graduated with an overall average of 10. Dissertation exam passed with an average of 10.  
**Master in Management, Innovation and Technology of Collaborative Systems (MITSC)**, graduated with an overall average of 10. Dissertation exam passed with an average of 10.
- 2012 - 2016 **National University of Science and Technology POLITEHNICA Bucharest, Faculty of Engineering in Foreign Languages (FILS), Computer and Information Technology in French section, bachelor's degree**  
 First average admission: 9.98  
 Graduation averages: first year - 9.95, second year - 10, third year - 9.95, fourth year - 9.92. Beneficiary of a performance scholarship.  
 Graduation from college as valedictorian, with an overall average of 9.95.  
 License exam passed with a grade of 10.  
  - Over 10 prizes and 15 participations in the Student Scientific Communications Sessions and other university competitions ("JAVA Competition for Universities", organized by ADFABER and Oracle; "Smart technologies" hackathon, organized by the company Reply Technologies)
  - Psychopedagogical Module** – Level I, Polytechnic University of Bucharest (2012 – 2015) and Level II, Polytechnic University of Bucharest (2019)
- 2008 - 2012 **"Gheorghe Lazar" National College, Bucharest, real profile, mathematics-computer science specialization**  
 Head of class, graduation average 9.99  
 Baccalaureate with a final average of 9.88  
  - 3rd Prize at the French Language Olympiad, national phase, 2009, First Mention at the French Language Olympiad, national phase, 2010

PERSONAL COMPETENCE

Mother tongue(s) Roman

Other Known Foreign Languages

	INTELEGERE		SPEECH		WRITING
	Obedience	Read	Join the conversation	Oral Discourse	
French	C2	C2	C1	C1	C2
Advanced Diploma in French Language DALF C1					
English	C2	C2	C2	C2	C2
Cambridge CAE Certificate – C2					

Organizational/managerial skills

- leadership** – responsible for the Internet of Things program in French; tutor for students in the French branch (various years of study), Internet of Things and Information Engineering sections
- organizing the** "Hardcore Entrepreneur" programming contest for students, 2021-2025, totaling over 500 participating teams from all over the country
- good organizational skills:** organization of university workshops, organization of the Francophonie Festival and the children's science festival "SciK!ds
- promotion:** I participated in the presentation and promotion of the FILS faculty at various workshops, presentations, as well as at the booth organized during **the POLIFEST, ROBOFEST** and **POLI INTERNATIONAL FEST** festivals (2014-2025); organizer of the "serious games at FIS" booth at the DevPlay conference for video games (2023-2025)
- volunteering:** judging the programming contest for students – "Start coding with Alice" (2015 and

2016), organized by Adfaber and Oracle Academy

**Computer skills** ▪ Good knowledge of different programming languages (Java, C#, C++, Pascal, Python, SQL), development of VR and AR games and applications (Unity, Unreal Engine), web development and mobile applications, good knowledge of Microsoft Office™ tools

**Other competences** ▪ Artistic skills: professional photography certification.

**Driver's license** Category B

ADDITIONAL INFORMATION

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**Publications** Over 70 scientific articles published in journals or in the volumes of scientific events. Among them, the following stand out:

- "Effectiveness of Virtual Reality-Based Multi-Therapy Systems for Physio-Psychological Rehabilitation: A Clinical Study", Stanica, Iulia-Cristina, Simona Magdalena Hainagiu, Alberta Milicu, Maria-Iuliana Dascalu, and Giovanni-Paul Portelli. 2024. Applied Sciences 14, no. 19: 9093, Q1. <https://doi.org/10.3390/app14199093>
- "Flexible Virtual Reality System for Neurorehabilitation and Quality of Life Improvement", Stănică, IC; Moldoveanu, F; Portelli, P.-G., Dascălu, M.-I.; Moldoveanu, A., Ristea, G.M., MDPI Sensors, vol. 20(21), special issue "Smart Sensors and Measurements Methods for Quality of Life and Ambient Assisted Living" pg. 6045, <https://doi.org/10.3390/s20216045>, 2020 FI 3.576, Q2 (Instruments & Instrumentation), Q2 (Engineering, Electrical & Electronic), WOS:000589250200001
- Dascalu, Maria-Iuliana, Iulia-Cristina Stanica, Ioan-Alexandru Bratosin, Beatrice-Iuliana Uta, and Constanta-Nicoleta Bodea. 2024. "Virtual Reality for Career Development and Exploration: The CareProfSys Profiler System Case" *Electronics* 13, no. 13: 2629, Q2, <https://doi.org/10.3390/electronics13132629>
- "Sound of vision 3D virtual training environments – A gamification approach for visual to audio-haptic sensory substitution", A. Moldoveanu, O. Balan, M.I. Dascalu, I. Stanica, C.N. Bodea, R. Unntorsson, F. Moldoveanu, Revue Roumaine des Sciences Techniques, Academie Roumaine, Editura Academiei Romane, Ianuarie – Martie 2018, Revista ISI, FI 1.036.
- Reusable Virtual Training and Evaluation Solutions for Sensory Substitution Devices", Moldoveanu, A., Bălan, O., Ivănică, G., Stănică, I., Silviu Ivaşcu, Florica Moldoveanu, Maria-Iuliana Dascălu, Daniel Flamaropol, Anca Morar, <http://joaoguerreiro.net/chi19workshop/paper8.pdf>, CHI'19 Extended Abstracts, May 4-9, 2019, Glasgow, Scotland, UK — conferință A\*

**Books and book chapters:**

- **Iulia Cristina STANICA**, "Virtual and Augmented Reality: Understanding, Learning, Creating", pp. 136. Politehnica Press 2024.
- Maria-Iuliana Dascalu, Andrei Sergiu Bumbacea, Ioan - Alexandru Bratosin, **Iulia Cristina Stanica**, Constanta-Nicoleta BODEA "CareProfSys - Combining Machine Learning and Virtual Reality to Build an Attractive Job Recommender System for Youth: Technical Details and Experimental Data" In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), pp. 289-298. 2024.
- DASCALU Maria Iuliana, DRAGOI George Stelica, MARIN Iuliana, MITREA Dan Alexandru, **STANICA Iulia-Cristina**, Learn to Program in Java - Practical Work Guide, Editura Politehnica Press, ISBN: 978-606-515-890-0, 2019.
- Maria Iuliana Dascalu, Constanta-Nicoleta Bodea, **Iulia Cristina Stanica**, Dan Alexandru Mitrea , Simona Magdalena Hainagiu, Simona Nicoleta Neagu, Tudor Ursachi "From traditional career services to intelligent systems for career guidance: A study of career services diversity in higher education institutions" In Prioritizing Skills Development for Student Employability, pp. 89-119. 2024.
- **National Patent** request (System and method for saving and retrieving regions or reference points defined by a user in an n-dimensional dataset, OSIM RO135778AO).
- Participation and paper presentations **at over 30 national and international conferences.**

04.02.2026