

PERSONAL INFORMATION

Danciu Alexandra-Denisa



THE JOB FOR WHICH THEY
APPLY
THE POSITION
DESIRED WORKPLACE
THE STUDIES FOR WHICH
THEY APPLY

Assistant Professor position 5, Department of Railways, Roads and Bridges, Faculty of Civil Engineering, Technical University of Cluj-Napoca

EXPERIENTA PROFESIONALA

2013 – present

Lecturer

Technical University of Cluj-Napoca, Faculty of Civil Engineering, Department of Railways, Roads, and Bridges, Observatorului street no. 72-74, O203A , www.utcluj.ro, www.constructii.utcluj.ro

- Bridge Design Basics - year III, section Railways, Roads and Bridges - preparation of course materials and practical works and teaching lectures and practical works in Romanian.
- Steel Bridges 1 – year III, section Railways, Roads and Bridges - preparation of course materials and practical works and teaching lectures and practical works in Romanian.
- Steel Bridges 2 – year III, section Railways, Roads and Bridges – preparation of practical work materials and teaching practical works in Romanian.
- Steel Bridges 3 – year IV, section Railways, Roads and Bridges – preparation of practical work materials and teaching practical works in Romanian.
- Art Works – year II, Civil Engineering - preparation of course materials and papers and teaching lectures and practical works in Romanian.
- Engineering Structure Bridges – year II, Civil Engineering - preparation of course materials and papers and teaching lectures and practical works in English.
- Steel Structures – year IV, section Urban Engineering and Regional Development - preparation of course materials and papers and teaching lectures and practical works in Romanian.
- Concrete bridges 1 - year III, section Railways, Roads and Bridges – preparation of practical work materials and teaching practical works in Romanian.
- Concrete Bridges 2 - year IV, section Railways, Roads and Bridges – preparation of practical work materials and teaching practical works in Romanian.

Type or sector of activity Higher Education

2012 – 2013

Assistant

Technical University of Cluj-Napoca, Faculty of Civil Engineering, Department of Railways, Roads, and Bridges, Observatorului street no. 72-74, O203A , www.utcluj.ro, www.constructii.utcluj.ro

- Bridge Design Basics - year III, section Railways, Roads and Bridges - preparation of course materials and practical works and teaching lectures and practical works in Romanian.
- Steel Bridges 1 – year III, section Railways, Roads and Bridges - preparation of practical works and teaching practical works in Romanian.
- Maintenance and rehabilitation of steel bridges – year IV, section Railways, Roads and Bridges – preparation of practical work materials and teaching practical works in Romanian.
- year IV, section Railways, Roads and Bridges – preparation of practical work materials and teaching practical works in English.

Type or sector of activity Higher Education

2007-2012 Junior assistant

Technical University of Cluj-Napoca, Faculty of Civil Engineering , Department of Structural Mechanics Cluj-Napoca, Constantin Daicoviciu street no 15, www.utcluj.ro, www.constructii.utcluj.ro

- Strength of Materials 1 – year II, Civil Engineering – preparation of practical work materials and teaching practical works in Romanian.
- Strength of Materials 2 – year II, Civil Engineering – preparation of practical work materials and teaching practical works in Romanian.
- Theory of Elasticity – year III, Civil Engineering – preparation of practical work materials and teaching practical works in English.
- Finite Element Method - preparation of practical work materials and teaching practical works in Romanian.

Type or sector of activity Higher Education

2006 – 2007 PhD Student

Technical University of Cluj-Napoca, Faculty of Civil Engineering , Department of Structural Mechanics Cluj-Napoca, Constantin Daicoviciu street no 15, www.utcluj.ro, www.constructii.utcluj.ro

- Strength of Materials 1 – year II, Civil Engineering – preparation of practical work materials and teaching practical works in Romanian.
- Strength of Materials 2 – year II, Civil Engineering – preparation of practical work materials and teaching practical works in Romanian.

Type or sector of activity Higher Education

2022 – present Technical Expert subdomain A4.2, B2.2, D2.2

- Technical Expertise activities in the subfield A 4.2, B 2.2 and D 2.2.

Type or sector of activity Activities of technical expertise of bridge works.

2007 – present Civil Engineer CFDP / Administrator

S.C. STARCOM EXIM SRL

- Activities specific to the quality of administrator
- Engineering activities – design in the field of road infrastructure: roads, bridges, consolidations, waterworks.
- Technical Expertise activities in the subfield A 4.2, B 2.2 and D 2.2.

Type or sector of activity Engineering and technical consulting activities in the field of road infrastructure

EDUCATION AND TRAINING**2011 PhD**

Technical University of Cluj-Napoca, Faculty of Civil Engineering

2006 - 2011 PhD Student

Technical University of Cluj-Napoca, Faculty of Civil Engineering

- The title of the doctoral thesis: Efficiency and error in the Finite element Method with applications to structures.

2011 Project manager

Extreme Training, CNFPA accredited postgraduate course

2006 - 2008 Master – Water Resources Management

Technical University of Cluj-Napoca, Faculty of Civil Engineering

- Advanced Hydraulics, Water Resources Management, Hydrotechnical Developments and Constructions, Water Quality Protection, Hydrology, Statistics and Dynamics

2007 Erasmus – TUDelft

Technical University of Delft, Delft, The Netherlands

- Finite Element Method, Numerical Modeling of Soils, Observational Research

2002 - 2005

Psych pedagogical course

Technical University of Cluj-Napoca, Faculty of Civil Engineering

- Psychology of education, Pedagogical practice, Didactics of the specialty

2006 - 2008

Bachelor of Science in Civil engineering, Railways, Road and Bridges

Technical University of Cluj-Napoca, Faculty of Civil Engineering

- Fundamentals of bridge design, Steel bridges 1 and 2, Maintenance and rehabilitation of steel bridges, Concrete bridges 1 and 2, Maintenance and rehabilitation of concrete bridges, Roads, Railways, Tunnels, Road maintenance, Highways

PERSONAL SKILLS

Maternal languages

Romanian

Foreign languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Conversations	Oral speaking	
English	C1	C1	C1	C1	C1
French	B1	B1	A2	A2	A2
German	A1	A1	A1	A1	A1

Levels: A1/2: Elementary user - B1/2: Independent user - C1/2: Experienced user
Common European Framework of Reference for Foreign Languages

Communication skills

- good communication skills acquired through communication training and through the activity carried out during the student period within the student organization BEST (Board of European Students of Technology) both locally and internationally.
- good communication skills acquired as a result of teaching and communicating with students.

Organizational/managerial skills

- leadership (as a student I was responsible for a team of 5)).
- establishing priorities and meeting deadlines (skills acquired as project manager/research contract director).
- project planning and implementation.

Skills acquired in the workplace

- good knowledge of European and Romanian standards in the field of civil engineering, roads and bridges, and of norms and legislation.

Computer skills

- a good knowledge of Microsoft Office™ tools
- a good knowledge of structural analysis programs and analysis with EF: SAP2000, Prokon, Midas, LISA-FET, Ansys, Abaqus, IdeaStatica.
- design experience using the AUTODESK software package.
- skills in using Mathcad and SMATH mathematical modeling software.
- skills in graphic design using Adobe Lightroom, Adobe Photoshop software.

Other skills

Grants and research projects:

- Project director "Research regarding the construction of arch bridges of the Network Arch type", period 2022-2024.

- Team member in the project: "Research on improving the load-bearing capacity of T17 prestressed concrete railway sleepers, using zeolite", period 2023-2025.

Third party projects

- Project manager "Technological study regarding technical expertise services, SF, PT, DE, Technical assistance from the designer for Capital Repair "Bridge over the Mureş River with overpass over the Deda-Tg. Mureş CF line, Călărăşilor str. The municipality of Tg. Mureş, Mureş County", 2016-2018 implementation period.

Other types of projects:

- Project leader: Modernization of county roads and/or bridges located on county roads in Cluj County DJ 182 E Pod km 6+053, Chiuiesti; DJ 107 R Pod km 17+700, Ciurila; DJ 161 D Pod km 2+555 (peste Valea Salca), Jichisu; DJ 103L Pod km 0+000, Manastireni; DJ161 Pod km 30+977, Piglisa, 2020.
- Project leader: Bridge on DJ 154C, km 1+086 Şieut, Bistriţa-Năsăud County, 2019.
- Team member: Bridge on DJ 108 G, km 9+620, across the valley of Crasna, in Cizer, Salaj County.
- Team member: Bridge on DJ 172K, 4+365, Reteag, Bistrita-Nasaud County, 2018.
- Team member: Modernization DJ 173, KM 25+309-39+842, Sieu-Teaca, km 42+968 – 54+100, Teaca-Ocnita, Bistrita-Nasaud County"
- Team member: Modernization DJ172D: Mureşenii Bârgăului (DN17) – Lac Colibiţa – Colibiţa – Bistriţa Bârgăului (DN17) – (DN17) Josenii Bârgăului – Strâmba – Ilva Mica (DN17D) – Poiana Ilvei – Măgura Ilvei – Ilva Mare – Lunca Ilvei – limita jud. Suceava, jud. Bistriţa-Năsăud – Lot 3 – km 40+732 – 54+842 – (DN17) Josenii Bârgăului – Strâmba – Ilva Mica – bridge works were also carried out.

Reviewer:

- Applied Sciences (Q1 in General Engineering)
- Journal of Marine Science and Engineering (Q1 in engineering, Marine)
- Buildings (Q2 in Engineering, Civil)
- Sustainability (Q2 in Environmental Studies)
- Designs (Scopus)

Member of commissions at national and institutional level

- Member of the Bachelor of Science commission CFDP specialization, Faculty of Construction, Technical University of Cluj (2016 – present)
- Member of the dissertation committee for the master's program Transport Infrastructure Engineering, Faculty of Construction, Technical University of Cluj (2019 – present)
- Member of the doctoral theses' guidance committee, Faculty of Construction, Technical University of Cluj (2020 – present)
- Member of the admission committee for the master's study program within the Faculty of Construction, Technical University of Cluj-Napoca (2020 – present)
- Bachelor year tutor, Railways, Roads and Bridges section, III/IV-year, Faculty of Construction, Technical University of Cluj (2016 – present)
- Member of competition commissions for teaching positions: Lecturer Ciont Nicolae (2016), Lecturer Andrei Clitan (2016), Lecturer Mihai Liviu Dragomir (2016), Lecturer Ciocan Remus (2016), Assistant Marusceac Vladimir (2016), Assistant Chindris Ionut Iacob (2022).
- Member of the committee for verifying the fulfillment of the minimum standards of competition files for teaching positions, Faculty of Construction, Technical University of Cluj (2019)
- Member of the committee for the development of subjects for the professional attestation of Project Verifiers and Technical Experts in the subfield A4.2, B2.2, D2.2 (December 2021 session), Ministry of Development, Public Works and Administration

Member of professional organizations at international and national level

- IABSE – International Association for Bridge and Structural Engineering
- APDP Cluj – Professional Association of Roads and Bridges, Cluj-Napoca Branch

Driver's license

- B

ADDITIONAL INFORMATION

- Publications
 - Presentations
 - Projects
 - Conferences
 - Seminars
 - AWARDS
 - Affiliations
 - Reference
- 6 specialized books in the field of Civil Engineering (steel bridges, footbridges, theory of elasticity).
 - 2 research-development-innovation projects, 1 as a grant director, the second as a member of the implementation team, carried out through the Technical University of Cluj-Napoca.
 - project with third parties carried out through the Technical University of Cluj-Napoca.
 - more than 30 bridges, road, consolidation, urban mobility design projects as project leader or member of the implementation teams.
 - 21 bridge technical expertise.
 - 61 scientific paper.

Date: 08.01.2024

Lecturer PhD. Eng. Alexandra-Denisa DANCIU

