

# Curriculum vitae Europass



## PERSONAL INFORMATION

First name / Surname **Cristina-Mariana TĂNASĂ**  
Address Timișoara, Romania  
Phone +40 256 403954 Mobile: +40 743033151  
Nationality Română  
Date of birth 09.05.1989

## WORK EXPERIENCE

|                                      |  |
|--------------------------------------|--|
| Dates                                | September 2019 - Onwards   |
| Position                             | Assistant Professor  |
| Main activities and responsibilities | Teaching activities, seminars, laboratory, practical works;<br>Preparing the didactic material and updating it every time is necessary;<br>Documentation activities, scientific and methodical training, individual training for career development<br>Participation in activities of institutional interest, including participation in specific activities of the Department and Faculty;<br>Participation in conferences, symposia, congresses etc., organized in the main field of activity or in interdisciplinary fields;<br>Organization of academic exchanges between different universities in the country and abroad;<br>Activities of scientific research, development-innovation, design, expertise and research for career development. |
| Name and address of employer         | Politehnica University Timisoara, Piata Victoriei No. 2, 300006 Timisoara, Timis, Romania<br><a href="http://www.upt.ro">www.upt.ro</a>  |
| Type of business or sector           | Education and Scientific Research  |
| Dates                                | March 2019 - Onwards   |
| Position                             | Design engineer  |
| Main activities and responsibilities | Design activities for energy efficient buildings;<br>Studies on the solutions and measures to improve the energy performance of buildings;<br>Calculation and assessment of the energy consumption of buildings by using dedicated software tools;<br>Building energy modelling;<br>Building information modelling.  |
| Name and address of employer         | S.C. Daro Proiect S.R.L., Calea Buziasului No. 11, Timișoara, Timis, Romania   |
| Type of business or sector           | Civil Engineering  |
| Dates                                | October 2012 – February 2019   |
| Position                             | Design engineer  |
| Main activities and responsibilities | Structural design and analysis;<br>Provide drawings for designed structures;<br>Research involving the energy performance of buildings, sustainable solutions for buildings;<br>Building energy certification.   |
| Name and address of employer         | S.C. Arhitim S.R.L., Calea Circumvalatiunii No. 39C, Timișoara, Timis, Romania   |
| Type of business or sector           | Civil Engineering  |

## EDUCATION AND TRAINING

|  |   |                         |  |
|--|---|-------------------------|--|
| Dates  | 2008-2012   | 2012-2014               | 2014-2018  |
| Type of qualification awarded                                  | Engineer  | Master                  | Ph.D.  |
| Principal subjects/occupational skills covered                 | Civil engineering   | Building Rehabilitation | Study on building energy efficiency using numerical simulations and in situ measurements |
| Name and type of organization providing education and training | Politehnica University Timisoara, Piata Victoriei No. 2, 300006 Timisoara, Timis, Romania<br>www.upt.ro |                         |  |

### International training

|  |  |
|--|--|
| Dates  | September 2016 – December 2016                   |
| Principal subjects/occupational skills covered                 | Building energy modelling for hourly simulations |
| Name and type of organisation providing education and training | Politecnico di Torino, Italia                    |

## PERSONAL SKILLS AND COMPETENCES

Mother tongue **Romanian**

Other languages

Self-assessment

European level (\*)

**English**

**French**

**Spanish**

**German**

| UNDERSTANDING |              |         |              | SPEAKING           |              |                   |              | WRITING |          |
|---------------|--------------|---------|--------------|--------------------|--------------|-------------------|--------------|---------|----------|
| Listening     |              | Reading |              | Spoken interaction |              | Spoken production |              |         |          |
| C1            | Advanced     | C1      | Advanced     | C1                 | Advanced     | C1                | Advanced     | C1      | Advanced |
| B1            | Intermediate | B1      | Intermediate | A2                 | Elementar    | A2                | Elementar    | A2      | Basic    |
| B1            | Intermediate | B1      | Intermediate | B1                 | Intermediate | B1                | Intermediate | A2      | Basic    |
| A1            | Beginner     | A1      | Beginner     | A1                 | Beginner     | A1                | Beginner     | A1      | Beginner |

(\*)Common European Framework of Reference for Languages

|                                    |   |
|------------------------------------|---|
| Social skills and competences      | Good teamwork skills, gained through volunteering, working on different projects with my fellow students and membership to a research team in a research project.<br>Friendly and cooperative<br>Intercultural interaction skills, gained by being part of a students exchange program. |
| Organisational / managerial skills | Coordinator for dissertation thesis<br>Secretary of examination committee   |
| Technical skills and competences   | Energy efficiency of buildings<br>Building energy modelling<br>Dynamic numerical simulations<br>Infrared thermography<br>Building airtightness tests  |
| Computer skills and competences    | Microsoft Office, AutoCAD, Vabi Elements, Energy Plus, Therm, Antherm, Doset-PEC  |

## Scientific papers / Books

### Books and chapters

- S.C. Floruț, D. Dan, C.M. Tănăsă, "Building physics – Experimental work and analytical examples", Editura POLITEHNICA, 2017, ISBN 978-606-35-0063-3.
- D. Dan and C. Tanasa, "Life Cycle Cost Analysis of Energy Efficient Buildings: Theory and Study Case," in Environmental and Human Impact of Buildings, Springer International Publishing, 2021, p. Chapter 11.

### Selected scientific papers

- C. Tănăsă, D. Dan, C. Becchio, S.P. Corgnati, V. Stoian, „Cost-optimal and indoor environmental quality assessment for residential buildings towards EU long-term climate targets”, Energy For Sustainable Development, vol. 59, pp. 49-61, 2020. <https://doi.org/10.1016/j.esd.2020.09.002>
- C. Tanasa, C. Becchio, S.P. Corgnati, V. Stoian, D. Stoian, D. Dan, „Calibration of a building energy model using operation conditions derived from monitoring”, E3S Web of Conferences – Proceedings of CLIMA 2019 Congress, 2019.
- S. Brata, C. Tanasa, V. Stoian, D. Stoian, D. Dan, C. Pacurar, S. Brata, „Measured and calculated energy saving on ventilation of a residential building equipped with ground-air heat exchanger”, E3S Web of Conferences – Proceedings of CLIMA 2019 Congress, 2019.
- C. Tanasa, V. Stoian, D. Stoian, D. Dan, „Energy consumption evaluation of a passive house through numerical simulations and monitoring data”, Life-Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision - Proceedings of the 6th International Symposium on Life-Cycle Civil Engineering, IALCCE 2018.
- D. Dan, C. Tanasa, V. Stoian, S. Brata, D. Stoian, T. Nagy-Gyorgy, S.C. Florut, "Passive house design-An efficient solution for residential buildings in Romania", Energy For Sustainable Development, vol. 32, pp. 99-109, June 2016, DOI: 10.1016/J.ESD.2016.03.007.
- I. Boros, C. Tanasa, V. Stoian, D. Dan, " Life cycle assessment and life cycle cost analysis of a nearly zero energy residential building - a case study", Environmental Engineering and Management Journal, vol. 16, Issue 3, pp. 695-704, March 2017 DOI: 10.30638/EEMJ.2017.071.
- C. Tanasa, M. Fofiu, D. Stoian, V. Stoian, D. Dan, "Air Tightness Measurements for an Energy Efficient Residential House Using the Blower Door Procedure", 15th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, Oradea, Romania, Nov. 27-28 2015, pp. 169-174. (WOS:000378314000029).
- S. Brata, V. Cotorobai, S. Brata, C. Tanasa, "Thermal performances of a ground-air heat exchanger integrated in a mechanical ventilation system of a residential building – daily and hourly models", Proceedings of the 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, Oradea, Romania, Mar. 23-24 2017, pp. 133-138, ISBN 978-88-87729-42-2 (WOS:000413420300023).
- S. Brata, V. Cotorobai, C. Tanasa, "Differences between the five climatic zones of Romania regarding the design and energy requirements of an energy efficient house", Revista Română de Inginerie Civilă, Numărul 2/2016, Volumul 7(2016), Nr. 2, ISBN:20683987. (INDEX COPERNICUS, ProQUEST)
- Boros, C. Tanasa, V. Stoian, D. Dan, "Thermal studies of specific envelope solutions for an energy efficient building", International Conference on Innovative Research, ICIR 2015; Iasi; Romania; 14 May 2015 through 16 May 2015, Key Engineering Materials, vol. 660, pp 192-197, 2015. (SCOPUS)

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Additional information

References available upon request