

# DRAGOȘ LAZEA PH.D. STUDENT

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EDUCATION	Department of Computer Science, TU Cluj-Napoca	Cluj-Napoca, Romania
	<i>Ph.D. Candidate in Computer Science</i>	2025 - Present
	<ul style="list-style-type: none"> <li>• <b>Advisor:</b> Prof. Anca Hangan</li> <li>• <b>Research area:</b> Efficient Data Processing in Edge-Cloud Systems</li> </ul>	
EDUCATION	Department of Computer Science, TU Cluj-Napoca	Cluj-Napoca, Romania
	<i>M.Sc. in Artificial Intelligence and Computer Vision</i>	2023 - 2025
	<ul style="list-style-type: none"> <li>• <b>Master thesis:</b> Hardware and Software Solutions for Efficient IoT Data Processing at the Edge</li> <li>• Research scholarship recipient</li> </ul>	
EDUCATION	Department of Computer Science, TU Cluj-Napoca	Cluj-Napoca, Romania
	<i>B.Sc. in Computer Science</i>	2019 - 2023
	<ul style="list-style-type: none"> <li>• <b>Diploma project:</b> Anomaly Detection in Sensor Data</li> </ul>	
PROFESSIONAL EXPERIENCE	CS Department, TU Cluj-Napoca   Cluj-Napoca, Romania	Mar. 2026 - Present
	<ul style="list-style-type: none"> <li>• <b>Junior Lecturer:</b> leading labs and project work for Structure of Computer Systems, Assembly Language Programming, and Parallel and Distributed Computing courses</li> </ul>	
	CS Department, TU Cluj-Napoca   Cluj-Napoca, Romania	Nov. 2023 - Present
	<ul style="list-style-type: none"> <li>• <b>Research assistant:</b> working on EU Horizon projects <a href="#">DEDALUS</a> and <a href="#">Hedge-IoT</a></li> </ul>	
	CS Department, TU Cluj-Napoca   Cluj-Napoca, Romania	Oct. 2023 - Feb. 2026
<ul style="list-style-type: none"> <li>• <b>Teaching assistant:</b> leading labs and project work for Structure of Computer Systems, Assembly Language Programming, and Parallel and Distributed Computing courses</li> </ul>		
PROFESSIONAL EXPERIENCE	Montran S.R.L.   Cluj-Napoca, Romania	July 2023 - Aug. 2023
	<ul style="list-style-type: none"> <li>• <b>Full-stack intern:</b> developing a distributed payment system</li> </ul>	
PUBLICATIONS	1. D. Lazea, A. Hangan, and Z. István <i>EFlexiHist: Efficient and Accurate Software-driven Histogram Designs for FPGAs</i> . <i>International Conference on Field Programmable Technology 2025 (FPT'25)</i> , Shanghai, China, December 2025, pp. 47-55, doi: <a href="https://doi.org/10.1109/ICFPT67023.2025.00016">10.1109/ICFPT67023.2025.00016</a>	
	2. L. Todorean, D. Lazea, V. Ofrim, S. Dumbrava, A. Hangan, and T. Cioara <i>Edge-Oriented Orchestration of Energy Services Using Graph-Driven Swarm Intelligence</i> . <i>EMERGE Workshop @ EWSN 2025</i> , Leuven, Belgium, September 2025, <a href="https://emergeworkshop.github.io/2025/papers/emerge25-final3.pdf">https://emergeworkshop.github.io/2025/papers/emerge25-final3.pdf</a>	
	3. D. Lazea, A. Hangan, and T. Cioara <i>Building Equi-Width Histograms on Homomorphically Encrypted Data</i> . <i>Future Internet</i> , 2025; 17(6):256 (2025), doi: <a href="https://doi.org/10.3390/fi17060256">10.3390/fi17060256</a>	
	4. D. Lazea, T. Cioara, A. Hangan, and Z. István <i>Customizing Pre-Processing Algorithms for Streaming Sensor Data on Embedded Networked Devices</i> . <i>EMERGE Workshop @ EWSN 2024</i> , Abu Dhabi, UAE, December 2024, <a href="https://www.scopus.com/inward/record.uri?eid=2-s2.0-85218246255&amp;partnerID=40&amp;md5=474af05725684b094502089569fdf69">https://www.scopus.com/inward/record.uri?eid=2-s2.0-85218246255&amp;partnerID=40&amp;md5=474af05725684b094502089569fdf69</a>	
	5. G. I. Arcas, T. Cioara, I. Anghel, D. Lazea, and A. Hangan, <i>Edge Offloading in Smart Grid</i> . <i>Smart Cities</i> , Vol. 7, No. 1: 680-711 (2024), doi: <a href="https://doi.org/10.3390/smartcities7010028">10.3390/smartcities7010028</a>	

- POSTERS
1. **D. Lazea, A. Hangan, and Z. István** *FlexiHist: Efficient and Accurate Software-driven Histogram Designs for FPGAs*. *Field Programmable Logic and Applications 2025 (FPL 2025)*, Leiden, The Netherlands, September 2025
  2. **D. Lazea, A. Hangan, and Z. István** *FPGA-Powered Edge Computing: Efficient Multi-Stream Data Processing*. *Very Large Data Bases Summer School 2024 (VLDB SSC 2024)*, Cluj-Napoca, Romania, July 2024.

- AWARDS  
AND  
SCHOLARSHIPS
- **TUCN Research Scholarship for Master's Studies**, CS Department Oct. 2024
  - **3rd Place Best Paper Award**, Computer Science Students Conference June 2023

- VOLUNTEERING
- Very Large Data Bases (VLDB) Summer School | Cluj-Napoca, Romania July 2023**
- Involved in organizing academic and social activities dedicated to M.Sc. and Ph.D. students.

- SKILLS
- Languages:** Romanian (mother tongue), English.
- Programming:** Python, C/C++, Assembly x86.
- Hardware Design:** FPGA, VHDL, HLS.
- Personal Skills:** Time Management, Problem Solving, Critical Thinking.