



# CÉSAR IVÁN OLVERA ESPINOSA

## DOCTORAL RESEARCHER

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✉ [cesar.olveraespinosa@aalto.fi](mailto:cesar.olveraespinosa@aalto.fi)

🌐 [linkedin.com/in/cesar-olvera](https://www.linkedin.com/in/cesar-olvera)

## EDUCATION

- 2024 - PRESENT • **Doctor of Science (Tech.) Candidate**  
*Aalto University* (School of Electrical Engineering), Finland
- *Research Group:* Cloud and Network Computing
- 2021 - 2023 • **M. Sc. (Tech.) in Computer, Communications, and Information Sciences (CCIS)**  
*Aalto University* (School of Electrical Engineering), Finland
- *Major:* Communications Engineering
  - *Track:* Cloud and Network Services
  - *Thesis:* Evolving Trends in Software Performance and Energy Consumption: An Analysis of Compilers and Interpreters over Time
  - *Projects:* Information broadcasting using VLC technology (2022)
- 2015 - 2020 • **B. Sc. in Communications and Electronics Engineering**  
*Instituto Politécnico Nacional* (School of Mechanical and Electrical Engineering), México
- *Major:* Communications
  - Graduated with distinction
- Jan '19 - Jun '19 • **Student Exchange Program**  
*Aalto University* (School of Electrical Engineering), Finland

## LANGUAGES

- Spanish • Mother tongue
- English • Fluent

## PROFESSIONAL EXPERIENCE

- Jun '24 - Present • **Doctoral Researcher, Aalto University, Finland**  
Department of Information and Communications Engineering (DICE)
- *Project:* Cloud and Network Computing
  - *Supervisor:* Prof. Gopika Premsankar
  - *Advisor:* Prof. Jukka Manner
- Feb '23 - Dec'23 • **Research Assistant, Aalto University, Finland**  
Department of Information and Communications Engineering (DICE)
- *Project:* ICT for Climate actions
  - *Supervisor:* Prof. Jukka Manner
  - Investigation of the evolving trends in software performance and energy consumption.
- Jun '22 - Aug '22 • **Research Assistant, Aalto University, Finland**  
Department of Information and Communications Engineering (DICE)
- *Supervisor:* Markus Peuhkuri
  - Development of material to introduce Big Data, network measurements, and Machine Learning for Internet Traffic Measurement and Analysis course.

Mar '21 - Aug '21	<b>Technical Support Engineer</b> , <i>Ribbon Communications</i> , Mexico City, Mexico Ribbon Technical Support Mexico Team <ul style="list-style-type: none"> <li>Support in complex technical issues in customer's in-service systems carrying live VoIP/TDM network traffic.</li> </ul>
Feb '20 - Feb '21	<b>Intern</b> , <i>Ribbon Communications</i> , Mexico City, Mexico Ribbon Technical Support Mexico Team <ul style="list-style-type: none"> <li>Software development and maintenance: webpages, databases, scripts, and algorithms.</li> <li>Operation and maintenance of servers and telecommunication laboratories.</li> </ul>
Apr '18 - Sep '18	<b>Social Service</b> , <i>Instituto Politécnico Nacional</i> , Mexico City, Mexico Department of International Relations <ul style="list-style-type: none"> <li>Overseeing the planning, design, and execution of events aimed at international students.</li> <li>Managing the application and acceptance processes for exchange students.</li> </ul>

## RESEARCH PROJECTS

Feb '21 - Nov '24	<b>ICT for Climate actions</b> , <i>Academy of Finland</i> , Project Member Award amount: € 1.44 million <ul style="list-style-type: none"> <li><i>Principal Investigator</i>: Prof. Jukka Manner</li> <li>This project aimed to better understand the situation and minimize the impact of ICT on global warming by resource efficiency, optimized industrial processes,, remote meetings and smart energy systems.</li> </ul>
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## TEACHING ASSISTANT

Spring '25	<b>ELEC-E7315 Networking at Scale and Advanced Applications</b> , <i>Aalto University</i>
Fall '23	<b>ELEC-E7230 Mobile Communications</b> , <i>Aalto University</i> , Finland
Fall '22, '23	<b>ELEC-E7120 Wireless Communications</b> , <i>Aalto University</i> , Finland
Fall '22	<b>ELEC-E7230 Internet Traffic Measurement and Analysis</b> , <i>Aalto University</i> , Finland
Summer '22	<b>Research Assistant</b> for developing teaching material to introduce Machine Learning for ELEC-E7230 Internet Traffic Measurement and Analysis, <i>Aalto University</i> , Finland
Fall '20	<b>Information and Communication Technology Tutor</b> , <i>INROADS de México</i> , México

## MEDIA COVERAGE

Jun '22	<b>Information Broadcasting using Visible Light Communication Technology</b> , <i>Aalto University News</i> , Finland
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## AWARDS AND HONOURS

2024-2026	<b>Finland Fellowship grant</b> , <i>Aalto University</i> , Finland
2021 - 2023	<b>Scholarship Category A for Master's study programme</b> , <i>Aalto University</i> , Finland
May '21	<b>Graduated by high GPA in Bachelor's degree</b> , <i>Instituto Politécnico Nacional</i> , México
Oct '20	<b>Student travel grant for the Exchange programme</b> , <i>Instituto Politécnico Nacional</i> , México
2015 - 2020	<b>Telmex Excellence Scholarship for Bachelor's study programme</b> , <i>Fundación Telmex</i> , México

## ADDITIONAL ACTIVITIES

2023	<b>Member of the Pre-Badge Claim team in Slush</b> , <i>Helsinki</i> , Finland
2022	<b>Volunteer in the Aalto-3: Student Satellite Project</b> , <i>Aalto University</i> , Finland
2020	<b>Competition in AI Gaming Latinoamérica Microsoft Event</b> , <i>México City</i> , México
2016	<b>Competition in Line Follower Robot Category at ROBOTIME</b> , <i>México City</i> , México
'18, '21	<b>Participant in Jalisco Talent Land</b> , <i>Jalisco</i> , México