CÉSAR IVÁN
OLVERA ESPINOSA

DOCTORAL RESEARCHER

Aug 11, 2025

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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	**Technical Support Engineer**, *Ribbon Communications*, Mexico City, Mexico

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Ribbon Technical Support Mexico Team

- Support in complex technical issues in customer's in-service systems carrying live VoIP/TDM network traffic.

Feb '20 - Feb'21

Intern, *Ribbon Communications*, Mexico City, Mexico
Ribbon Technical Support Mexico Team

- Software development and maintenance: webpages, databases, scripts, and algorithms.
- Operation and maintenance of servers and telecommunication laboratories.

Apr '18 - Sep '18

Social Service, *Instituto Politécnico Nacional*, Mexico City, Mexico
Department of International Relations

- Overseeing the planning, design, and execution of events aimed at international students.
- Managing the application and acceptance processes for exchange students.

RESEARCH PROJECTS

Sep '25 - Aug '29

Decarbonizing AI (**DecAI**), *Academy of Finland*, Project Member
Award amount: € 627,629

- *Principal Investigator*: Prof. Gopika Premsankar
- This project aimed to decarbonize AI through long-term impact assessment and optimization. DecAI develops a framework to estimate carbon emissions across AI's development, operation, and use.

Feb '21 - Nov '24

ICT for Climate actions, *Academy of Finland*, Project Member
Award amount: € 1.44 million

- *Principal Investigator*: Prof. Jukka Manner
- 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.

TEACHING ASSISTANT

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

MEDIA COVERAGE

Jun '22	**Information Broadcasting using Visible Light Communication Technology**, *Aalto University News*, Finland

AWARDS AND HONOURS

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

ADDITIONAL ACTIVITIES

2025 — **ACACES 2025 Summer School**, *Fiuggi*, Italy

2023 — **Member of the Pre-Badge Claim team in Slush**, *Helsinki*, Finland

2022 — **Volunteer in the Aalto-3: Student Satellite Project**, *Aalto University*, Finland

2020 — **Competition in AI Gaming Latinoamérica Microsoft Event**, *México City*, México

2016 — **Competition in Line Follower Robot Category at RO8OTIME**, *México City*, México

'18, '21 — **Participant in Jalisco Talent Land**, *Jalisco*, México