

EDUCATION

PhD in Informatics

Université Grenoble Alpes — INRIA
Under supervision of Anne Spalanzani and Christian Laugier

Grenoble, France
Jan 2024 - Ongoing

M.Sc. in Mobile, Autonomous and Robotic Systems

Grenoble INP — Université Grenoble Alpes
Thesis: “Transformer-based Lidar-RGB Fusion for Semantic Grid Prediction in Autonomous Vehicles” - [link](#)

Grenoble, France
Sept 2021 - Sept 2022

Postgraduate Diploma Specialization in Artificial Intelligence

Universidad Autonoma de Occidente (UAO)

Cali, Colombia
Aug 2020 - Jul 2021

B.Eng. in Mechatronics Engineering

Universidad Autonoma de Occidente (UAO)
Thesis: “Object recognition in images using Deep Learning”

Cali, Colombia
Jan 2013 - Dec 2017

RESEARCH INTEREST

Mobile Robotics, Autonomous vehicles, Artificial Intelligence, Navigation, Aerospace, Computer Vision, Reinforcement Learning and Deep Learning.

EXPERIENCE

Centre Inria de l'Université Grenoble Alpes

R&D Engineer - CHROMA team

Grenoble, France
Oct 2022 - Dec 2023

- Perform research in semantic grids prediction by fusing camera and Lidar inputs, and path planning for autonomous vehicles.

Open International

Product Specialist - Support Services

Cali, Colombia
Feb 2019 - Sept 2021

- First level engineer where I was in charge of technical and functional duties, configuring, debugging and supporting Open's product for North-American customers.

Robotica for kids

Robotics teacher

Cali, Colombia
Jan 2018 - Dec 2018

- Teach robotics topics for kids in schools or in-site courses from middle to high school, and develop different projects in a variety of complexity levels for classes.

PUBLICATIONS

- [1] **G. Salazar-Gomez**, W. Liu, M. Diaz-Zapata, D. Sierra-Gonzalez, and C. Laugier, “Tlcfuse: Temporal multi-modality fusion towards occlusion-aware semantic segmentation”, in *2024 IEEE Intelligent Vehicles Symposium (IV)*, 2024, pp. 2110–2116.

- [2] **G. Salazar-Gomez**, D. S. González, M. Diaz-Zapata, A. Paigwar, W. Liu, Ö. Erkent, and C. Laugier, “Transfusegrid: Transformer-based lidar-rgb fusion for semantic grid prediction”, in *17th International Conference on Control, Automation, Robotics and Vision, ICARCV 2022, Singapore, Singapore, December 11-13, 2022*, IEEE, 2022, pp. 268–273.
- [3] G. A. Salazar-Gomez, M. A. Saavedra-Ruiz, and V. Romero-Cano, “High-level camera-lidar fusion for 3d object detection with machine learning”, *Computer Vision and Pattern Recognition (CVPR) Conference: LatinX in AI (LXAI) Research Workshop*, 2021.
- [4] J. A. López Sotelo, N. Díaz Salazar, and G. A. Salazar Gomez, “Application of transfer learning for object recognition using convolutional neural networks”, in *Applications of Computational Intelligence*, A. D. Orjuela-Cañón, J. C. Figueroa-García, and J. D. Arias-Londoño, Eds., Cham: Springer International Publishing, 2018, pp. 14–25, ISBN: 978-3-030-03023-0.2.

ACADEMIC SERVICES

Reviewer - IEEE IV 2025	February 2025
Topic: Autonomous driving, Trajectory planning	
Reviewer - IROS 2024	April 2024
Topic: 3D Detection, Trajectory planning	
Reviewer - IEEE IV 2024	March 2024
Topic: Autonomous driving, Path planning	
Reviewer - IROS 2023	April 2023
Topic: Multi-sensor, 3D Detection	

SKILLS

- **Languages:** Python, C++, Matlab, HTML, Shell.
- **Libraries:** OpenCV, Scikit-Learn, Tensorflow, PyTorch, nuScenes, nuPlan, PyTorch Lightning, Open3d.
- **Technologies:** Docker, Git, Linux

LANGUAGES

- **Spanish:** Mother-Language
- **English:** Advanced - C1
- **French:** Intermediate - B1/B2