Jorge Turriate Llallire

Paris, France
jorgeturriatellallire@gmail.com — +33 602 541 808
github.com/jorgeturriate — linkedin.com/in/jorge-victor-turriate-llallire

Profile Summary

AI & Computer Vision Engineer with experience in Monocular Depth Estimation (MDE), UAV perception, Curriculum Learning, 3D vision and remote sensing. Strong background in PyTorch, deep learning pipelines, dataset engineering, and research-oriented development. Interested in research roles and future PhD opportunities.

Experience

Research AI Intern — IBISC Lab, Université Paris-Saclay (Feb 2025 – Aug 2025)

- Developed Curriculum Learning strategies for Monocular Depth Estimation (MDE) in UAV-based disaster management.
- Trained lightweight SOTA MDE models (SPIdepth, M4Depth) for real-time depth estimation.
- Adapted KITTI and MidAir datasets, including automated sample selection and YOLOv8-based cropping.
- Implemented supervised and self-supervised training pipelines with custom scoring and loss functions.
- Monitored training using TensorBoard and W&B; managed cloud GPU resources.
- Collaborated with Qatar University for real-world UAV disaster validation.

Software, Deployment & Support Engineer — Modular Mining Systems (May 2021 – Sep 2023)

- Automated data extraction and log analysis using Python, reducing ticket resolution time.
- Managed SQL Server databases, VM infrastructure, and system upgrades.
- Led software migrations (Dispatch6.7/ProVision3.7) using Scrum methodology.
- Developed and maintained Dispatch API services and PowerBI dashboards.

Project Engineer Trainee — Modular Mining Systems (Dec 2019 – Apr 2021)

- Supported IT operations, project planning, and Gantt tracking.
- Assisted in deployment of mining technology solutions.

Software Developer — Panacea Consultores (Aug 2019 – Nov 2019)

- Developed REST APIs and backend logic using NodeJS.
- Managed MongoDB databases for distribution platforms.

Skills & Projects

Technical Skills

- **Deep Learning:** PyTorch, TensorFlow, SSL, GANs, CNNs, RL
- **Computer Vision:** YOLO, SfM, NeRFs, SLAM, Optical Flow
- **3D/Remote Sensing:** UAV imagery, Point Clouds, Change Detection
- **Tools:** W&B, TensorBoard, Git, Docker, Kubernetes, LaTeX
- **Backend:** NodeJS, Django, PHP
- **Databases:** SQL Server, MongoDB, Firebase
- **Languages:** Python, C++, JS, Matlab, Java, Dart
- **Cloud:** AWS, GCP

Projects

- **3D Reconstruction w/ SfM & NeRFs:** Custom object reconstruction and novel-view synthesis.
- **VR Tower of Hanoi:** VR application with Three.js for Meta headsets.
- **Real-Time Gesture Recognition:** Dual-stream CNN for video-call automation.
- **GAN Data Augmentation:** Synthetic generation to improve classifier performance.
- **YOLO + Kalman Tracking:** Tennis ball segmentation and trajectory estimation.
- **RL Drone Navigation:** Q-Learning + CNN for indoor object localization.
- **AutoML Hyperparameter Tuning:** Grid search + Bayesian optimization for K-means.

Education

M.Sc. in Machine Vision and Artificial Intelligence — Université Paris-Saclay (2023–2025)

B.Sc. in Telecommunications Engineering — Universidad Nacional de Ingeniería (2016–2020)

Languages

- Spanish — Native
- English — Advanced (C1)
- French — Basic (A2)

Courses & Certifications (Selected)

- Agile Methodologies Specialization Program — PUCP (2023)
- Data Analytics with Power BI — CIBERTEC (2020)
- CCNA Routing & Switching Essentials — Cisco (2019)
- Data Storytelling — Grow Up Data Analytics (2021)