Application to AI Fellows de l'Université PSL

- **First Names:** Daniel Felipe
- **Surnames:** Ordoñez Apraez
- **Nationality:** Colombian
- **Date of birth:** 29 August 1995
- **PhD thesis title:**
  Morphological Symmetries in Robot Learning: A Hitchhiker's Guide to Symmetry-aware Robot Modelling, Control, and Estimation
- **PhD thesis directors:**
  - Prof. Dr. Massimiliano Pontil - Italian Institute of Technology & University College London
  - Dr. Claudio Semini - Italian Institute of Technology
  - Prof. Dr. Carlos Mastalli - Heriot-Watt University
- **Thesis defense:** 25th May 2026 - Genoa, Italy
- **Discipline:** Machine Learning & Robotics
- **Current Position:** Postdoctoral position at the Italian Institute of Technology (IIT), Genoa, Italy
- **Areas of specialization:**
  - Machine learning for robotics
  - Physics informed machine learning
  - Geometric deep learning
  - Group theory
  - Harmonic analysis
- **Proposed Teaching Subjects:**
  - Reinforcement Learning (Theoretical and practical)
  - Geometric Deep Learning (Theoretical and practical)
  - Dynamical systems modelling and control
  - Topological Deep Learning
- **PR[AI]RIE-PSAI Research and Teaching area:** Robotics, led by Prof. Dr. Justin Carpentier

Daniel Felipe Ordoñez Apraez
April 7, 2026. Genoa, Italy.