



UNIVERSIDAD CATÓLICA SAN PABLO

CERTIFICATE

THE PROFESSIONAL SCHOOL OF ELECTRONIC AND TELECOMMUNICATIONS ENGINEERING

Hereby certifies that:

JOSUÉ PÉREZ SABATER

Has successfully participated in the MACHINE LEARNING SUMMER SCHOOL, held from August 2 to 13, 2025, with a total of 108 academic hours.

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Topics Covered in the Machine Learning Summer School 2025

- 1. **Bayesian Probabilistic Theory** – Ph.D. Yarin Gal *(University of Oxford)*
Bayesian Probabilistic Modelling – Ph.D. Yarin Gal *(University of Oxford)*
- 2. **Bayesian Functions** – Ph.D. Yarin Gal *(University of Oxford)*
- 3. **Introduction to Gaussian Processes** – Ph.D. Mauricio Álvarez *(University of Manchester)*
- 4. **Lab on Gaussian Processes** – Ph.D. Mauricio Álvarez *(University of Manchester)*
- 5. **Uncertainty in LLMs** – Ph.D. Yarin Gal *(University of Oxford)*
- 6. **Probabilistic Modelling of Cell Types** – Ph.D. Bianca Dumitrascu *(Columbia University)*
- 7. **Bayesian Optimization** – Ph.D. Mauricio Álvarez *(University of Manchester)*
- 8. **A Not-So-Gentle Introduction to Diffusion Models** – Ph.D. Yuge Shi *(Google DeepMind)*
- 9. **What do we gain from nonlinearity and multi-modal representations** – Ph.D. Bianca Dumitrascu *(Columbia University)*
- 10. **Efficient Pretraining of Large Language Models (LLMs)** – Omar U. Florez *(CENIA)*
- 11. **Diffusion Language Models** – Ph.D. Himanshu Sahni *(Google DeepMind)*
- 12. **Intro to Reinforcement Learning** – Ph.D. Finale Doshi-Velez *(Harvard Paulson School of Engineering and Applied Sciences)*
- 13. **Dealing with Space and, if Time, with Time** – Ph.D. Bianca Dumitrascu *(Columbia University)*
- 14. **xAI** – Ph.D. Finale Doshi-Velez *(Harvard Paulson School of Engineering and Applied Sciences)*
- 15. **xAI: Computational Properties & Metrics** – Ph.D. Finale Doshi-Velez *(Harvard Paulson School of Engineering and Applied Sciences)*
- 16. **Fairness, AI in Society** – Ph.D. Victorian Dean *(Olin College of Engineering)*
- 17. **Optimization and Online Learning** – Ph.D. David Martínez-Rubio *(Carlos III University of Madrid)*



- 18. **xAI: User-Focused Metrics for Interpretability** – Ph.D. Finale Doshi-Velez *(Harvard Paulson School of Engineering and Applied Sciences)*
- 19. **Introduction to Language Models** – Ph.D. Tal Linzen *(New York University)*
- 20. **Robustness in Deep Learning** – Ph.D. Grigoris Chrysos *(University of Wisconsin-Madison)*
- 21. **Imitation and Offline Reinforcement Learning** – Ph.D. Abhishek Gupta *(University of Washington)*
- 22. **Inverse Reinforcement Learning** – Ph.D. Abhishek Gupta *(University of Washington)*
- 23. **Causality – Fundamentals** – Ph.D. Francesco Locatello *(Institute of Science and Technology Austria)*
- 24. **Language Models: Evaluation and Analysis** – Ph.D. Grigoris Chrysos *(University of Wisconsin-Madison)*
- 25. **Introduction to Robot Learning** – Ph.D. Dhruv Shah *(Google DeepMind)*
- 26. **Large-Scale Robot Learning with Foundation Models** – Ph.D. Dhruv Shah *(Google DeepMind)*
- 27. **Responsible Generative AI: Ensuring Safety in Textual and Visual Generation** – Ph.D. Jindong Gu *(University of Oxford)*
- 28. **Causality** – Ph.D. Francesco Locatello *(Institute of Science and Technology Austria)*
- 29. **Causality – Inference, Discovery, Representation** – Ph.D. Francesco Locatello *(Institute of Science and Technology Austria)*
- 30. **Towards Trustworthy Foundation Models with Privacy** – Ph.D. Grigoris Chrysos *(University of Wisconsin-Madison)*

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