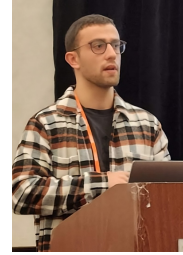


Gorka Abad

Curriculum Vitae.

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🔑 [KasGG7wAAAAJ](https://keybase.io/KasGG7wAAAAJ)



Education

- 2025–now **Postdoctoral researcher**, *University of Bergen*, Bergen, Norway,
research area Cryptography and Security of AI.
- 2021–2025 **Ph.D. candidate**, *Radboud University*, Nijmegen, The Netherlands,
In collaboration with Ikerlan research center in Spain.
research area Adversarial machine learning, mostly backdoor attacks.
supervisor Dr. Stjepan Picek
- 2019–2020 **Master's degree in cybersecurity**, *Universidad Internacional de La Rioja (UNIR)*,
Spain, 8.6/10
thesis *Enhancing IoT security through DLTs* 9/10
supervisor Fidel Paniagua
- 2015–2019 **Bachelor's degree in Software Engineering**, *Euskal Herriko Unibertsitatea (EHU)*, Spain,
thesis *Online penetration testing laboratory* 9/10
supervisor Juan Antonio Pereira

Experience

- 2021–now **Ph.D. candidate and Researcher**, *Ikerlan Research Center*, Arrasate-Mondragón,
Spain,
In collaboration with Radboud University.
- 2020–2020 **Assistant researcher**, *Euskal Herriko Unibertsitatea (EHU)*, Spain
Working on the Group for Adaptive Teaching-Learning Environment Group (Ga-Lan Group),
which focuses on applying Artificial Intelligence techniques for the development of learning
systems and tools with dynamic adaptation to the user.
- 2020–2020 **Cybersecurity Engineer**, *Arinn Innovation*, Spain
Internship working on cloud-based WAF management.
- 2018–2019 **Software developer**, *IDE*, Spain
Internship working on Java software development.

Teaching

- 2023 Teaching assistant in master's course *Security and Privacy of Machine Learning* at Radboud University, The Netherlands.

Service to the Academic Community

- 2023–now Reviewer at *IEEE Transactions on Information Forensics & Security (TIFS)*
2023–2024 Artifact evaluator at *Network and Distributed System Security (NDSS)*

Publications

- 2025 Abad, G., Picek, S., & Urbieto, A. (2025). *Time-Distributed Backdoor Attacks on Federated Spiking Learning*. European Symposium on Research in Computer Security.
- 2025 Li, J., Abad, G., Picek, S., & Conti, M. (2025). *Membership Privacy Evaluation in Deep Spiking Neural Networks*. European Symposium on Research in Computer Security.
- 2024 Riaño, R., Abad, G., Picek, S., & Urbieto, A. (2024). *Flashy Backdoor: Real-world Environment Backdoor Attack on SNNs with DVS Cameras*. arXiv preprint.
- 2024 Abad, G., Picek, S., Cavallaro, L., & Urbieto, A. (2024). *Context is the Key: Backdoor Attacks for In-Context Learning with Vision Transformers*. arXiv preprint.
- 2024 Abad, G., Ersoy, O., Picek, S., & Urbieto, A. (2024). *Sneaky Spikes: Uncovering Stealthy Backdoor Attacks in Spiking Neural Networks with Neuromorphic Data*. Network and Distributed System Security (NDSS) Symposium.
- 2023 Pleiter, B., Tajalli, H., Koffas, S., Abad, G., Xu, J., Larson, M., & Picek, S. (2023). *Tabdoor: Backdoor Vulnerabilities in Transformer-based Neural Networks for Tabular Data*. arXiv preprint.
- 2023 Tajalli, H., Abad, G., & Picek, S. (2023). *Poster: Backdoor Attack on Extreme Learning Machines*. In Proceedings of the 2023 ACM SIGSAC Conference on Computer and Communications Security
- 2023 Xu, J., Abad, G., & Picek, S. (2023). *Rethinking the Trigger-injecting Position in Graph Backdoor Attack*. In International Joint Conference on Neural Networks (IJCNN)
- 2023 Abad, G., Xu, J., Koffas, S., Tajalli, B., & Picek, S. (2023). *A Systematic Evaluation of Backdoor Trigger Characteristics in Image Classification*. arXiv preprint.
- 2023 Abad, G., Paguada, S., Ersoy, O., Picek, S., Ramírez-Durán, V. J., & Urbieto, A. (2023). *Sniper Backdoor: Single Client Targeted Backdoor Attack in Federated Learning*. In First IEEE Conference on Secure and Trustworthy Machine Learning.
- 2022 Abad, G., Ersoy, O., Picek, S., Ramírez-Durán, V. J., & Urbieto, A. (2022). *Poster: Backdoor Attacks on Spiking NNs and Neuromorphic Datasets*. In Proceedings of the 2022 ACM SIGSAC Conference on Computer and Communications Security (pp. 3315-3317).
- 2022 Abad, G., Picek, S., & Urbieto, A. (2022). *On the Security & Privacy in Federated Learning*. arXiv preprint.

Talks

- 2025 **Security of AI: An overview.**
BeDigital, Spain.
- 2024 **Security of AI: Are we there?**
At Universidad de Cantabria (UC), Spain.
- 2024 **Sneaky Spikes: Uncovering Stealthy Backdoor Attacks in Spiking Neural Networks with Neuromorphic Data.**
At NDSS'24 in San Diego, California.
- 2023 **Introduction to the Security and Privacy in Deep Learning.**
At the University of the Basque Country (UPV/EHU), Basque Country.
- 2023 **Security and Privacy in Deep Learning.**
At the University of the Basque Country (UPV/EHU), Basque Country.
- 2023 **Sniper Backdoor: Single Client Targeted Backdoor Attack in Federated Learning**
At SaTML'23 in Raleigh, North Carolina.
- 2023 **Poster: Backdoor Attacks on Spiking NNs and Neuromorphic Datasets.**
At Ikerlan research center.
- 2022 **Backdoor Attacks on Spiking NNs and Neuromorphic Datasets.**
At Radboud University.
- 2022 **Poster: Backdoor Attacks on Spiking NNs and Neuromorphic Datasets.**
At CCS'22.
- 2022 **On the security and privacy in Federated Learning**
For VeriDevOps European project.
- 2022 **Sniper Backdoor: Single Client Targeted Backdoor Attack in Federated Learning**
At Radboud University.
- 2022 **Sniper Backdoor: Single Client Targeted Backdoor Attack in Federated Learning**
At Ikerlan research center.

Research Visits

- 2024 Visiting Lorenzo Cavallaro and his team at University College London (UCL), London, UK

Courses

- 2022 Summer School on real-world crypto and privacy, Šibenik, Croatia
- 2022 Summer School on Security and Privacy, KU Leuven, Leuven, Belgium

Students Supervision

2024 Sep.– **Ph.D. candidate supervision**, at *Radboud University & Ikerlan*, Working on back-door attacks to large models.
now
2023 Oct.– **Master's student supervision**, at *UPV/EHU & Ikerlan*, Working on the security of SNNs.
2024 July
2023 Feb.– **Bachelor's student supervision**, at *UPV/EHU & Ikerlan*, Working on adversarial examples against autonomous driving systems.
2023 June
2022 June – **Master's student supervision**, at *Mondragón University & Ikerlan*, Working on adversarial examples against face recognition systems.
2023 March

Languages

Basque Native
Spanish Native
English Advanced