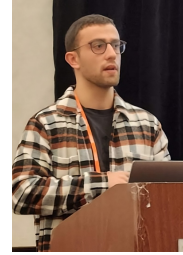


Gorka Abad

Curriculum Vitae.

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Education

- 2021–now **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

- 2020–2020 **Assistant researcher**, *Euskal Herriko Unibertsitatea (EHU)*, Spain
Working on the Group for Adaptive Teaching-Learning Environment (Ga-Lan Group), which centers on applying Artificial Intelligence techniques for developing 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–now Artifact evaluator at *Network and Distributed System Security (NDSS)*

Publications

- 2024 Abad, G., Ersoy, O., Picek, S., & Urbieto, A. (2024). *Time-Distributed Backdoor Attacks on Federated Spiking Learning*. 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*. To appear in NDSS'24.
- 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*.
- 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 arXiv:2302.01740.
- 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 arXiv:2112.05423.

Talks

- 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.

--- 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

- 2023 Oct.– now **Master's student supervision**, at *UPV/EHU & Ikerlan*, Working on the security of SNNs.
- 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