

HOAN MY TRAN

Teaching and Research Assistant @ IRISA - Univ. Rennes

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Experience

IUT Lannion – Univ. Rennes, Teaching and Research Assistant 09/2025 – 08/2026 
IRISA, EXPRESSION team Lannion, France 

- **Teaching:** C programming, Java object-oriented programming, and SQL databases.
- **Research & Impact:** Speech deepfake detection focused on speech foundation models (First author at ICASSP, ACL).

National Institute of Informatics (NII), Researcher Intern 03/2025 – 07/2025 
Yamagishi Lab Tokyo, Japan 

Supervisors: Xuechen Liu, Wanying Ge, Xin Wang, Junichi Yamagishi

- **Subject:** Word-level partially-spoofed speech detection.

Univ. Rennes, PhD Student 11/2022 – 03/2026 
IRISA, EXPRESSION team Lannion, France 

- **Subject:** Deep learning models for speech anti-spoofing (First author at ACM Multimedia, Interspeech, Eusipco).

Talend – Qlik, Software Engineer 09/2021 – 10/2022 
Data Inventory/Stewardship team Nantes, France 

A global leader in data integration and analytics solutions.

- **Cloud Talend Data Inventory:** Developed crawler automation tests – Java/Scala.
- **Cloud Talend Data Governance:** Developed features/tests – Java/Cucumber/Kubernetes/Docker/Jenkins.

Horoquartz, Apprentice Engineer 10/2018 – 09/2021 
Lab’Innovation Saint-Herblain, France 

A leading provider of workforce management and time tracking software.

- Developed log centralization cluster, and data aggregator for log files - Elasticsearch/Logstash/ReactJS.
- Proof of concept: Integrated chatbot for eTemptation service – CSML/Dialogflow/Python/Flask.

Intelligence, Software Developer Intern 04/2017 – 07/2017 
A specialist in high-capacity storage servers and tailored data management solutions. Suresnes, France 

- Developed UI responsive design and improved REST API of archiving software – HTML/CSS/JavaScript/PHP.

Education

Univ. Rennes, PhD in Computer Science 11/2022 – 03/2026 
Supervisors: Aghilas Sini, Arnaud Delhay Lannion, France 
Damien Lolive, Pierre-François Marteau, François Goasdoué

IMT Atlantique, MSc in Software Engineering 10/2018 – 09/2021 
Nantes, France 

IUT Villetaneuse - Univ. Sorbonne Paris North, BSc in Computer Science 09/2015 – 08/2017 
Villetaneuse, France 

Publications

International Conference

- **Hoan My Tran**, Xin Wang, Wanying Ge, Xuechen Liu, and Junichi Yamagishi. Deepfake Word Detection by Next-token Prediction using Fine-tuned Whisper. *Proc. ISCA Interspeech, 2026*. [CORE: A].
- **Hoan My Tran**, Damien Lolive, Aghilas Sini, Arnaud Delhay, Pierre-François Marteau and David Guennec. When depth is redundant: Efficient transformer-based speech anti-spoofing. *Proc. ACL Findings, 2026*. [CORE: A*].
- **Hoan My Tran**, Aghilas Sini, David Guennec, Arnaud Delhay, Damien Lolive, and Pierre-François Marteau. KAN we make models simpler for Audio Deepfake Detection with Kolmogorov-Arnold Networks? *Proc. IEEE ICASSP, 2026*. [CORE: B].
- **Hoan My Tran**, Damien Lolive, Aghilas Sini, Arnaud Delhay, Pierre-François Marteau, and David Guennec. Multi-level SSL Feature Gating for Audio Deepfake Detection. *Proc. ACM Multimedia, 2025*. [CORE: A*].

- **Hoan My Tran**, Damien Lolive, David Guennec, Aghilas Sini, Arnaud Delhay, and Pierre-François Marteau. Leveraging SSL Speech Features and Mamba for Enhanced DeepFake Detection. *Proc. ISCA Interspeech*, 2025. [CORE: A].
- **Hoan My Tran**, Damien Lolive, David Guennec, Aghilas Sini, Arnaud Delhay, and Pierre-François Marteau. KAN You Hear the Truth? Audio Deepfake Detection with Kolmogorov–Arnold Networks. *Proc. IEEE Eusipco*, 2025. [CORE: B].
- **Hoan My Tran**, David Guennec, Philippe Martin, Aghilas Sini, Damien Lolive, Arnaud Delhay, and Pierre-François Marteau. Spoofed Speech Detection with a Focus on Speaker Embedding. *Proc. ISCA Interspeech*, 2024. [CORE: A].

International Journal

- Sandipana Dowerah, Atharva Kulkarni, Ajinkya Kulkarni, **Hoan My Tran**, Joonas Kalda, Artem Fedorchenko, Benoit Fauve, Damien Lolive, Tanel Alumäe, and Matthew Magimai Doss. Speech DF Arena: A Leaderboard for Speech DeepFake Detection Models. *Proc. IEEE Open Journal of Signal Processing*, 2026. [Impact Factor: 2.7, Q2].

International Workshop

- Atharva Kulkarni*, **Hoan My Tran***, Ajinkya Kulkarni, Sandipana Dowerah, Damien Lolive, and Mathew Magimai Doss. Exploring Generalization To Unseen Audio Data For Spoofing: Insights From SSL Models. *Proc. The Automatic Speaker Verification Spoofing Countermeasures Workshop ASVspoof 5 (* equal contribution)*, 2024.

French-speaking Conferences

- **Hoan My Tran**, Aghilas Sini, David Guennec, Arnaud Delhay, Damien Lolive and Pierre-François Marteau. Simplifier la détection des deepfakes audio avec les réseaux de Kolmogorov–Arnold. *Proc. 36^{ème} Journées d’Etudes sur la Parole*, 2026.
- **Hoan My Tran**, Damien Lolive, Aghilas Sini, David Guennec, Arnaud Delhay and Pierre-François Marteau. Évaluation de la robustesse des modèles de fondation pour la détection de deepfakes audio : Influence de la diversité linguistique des données de pré-entraînement. *Proc. 36^{ème} Journées d’Etudes sur la Parole*, 2026.

Teaching Assistantship

IUT Lannion – Univ. Rennes, *Teaching Assistant*

11/2022 – 08/2026 📅
Lannion, France 📍

- C programming (Bachelor’s degree level), 40h.
- SQL databases (Bachelor’s degree level), 133h.
- Java object-oriented programming (Bachelor’s degree level), 90h.

ENSSAT – Univ. Rennes, *Contractual Teaching Assistant*

11/2022 – 03/2025 📅
Lannion, France 📍

- Algorithmic (Bachelor’s degree level), 30h.
- Java object-oriented programming (Bachelor’s degree level), 76h.
- Web server and services (Master’s degree level), 26h.

Invited Talks

Lannion PhD Students’ Day, *Speaker*

Round table on international mobility.

06/2026 📅
Lannion, France 📍

LIUM Seminar, *Speaker*

Face deepfake detection: overview and open challenges.

09/2025 📅
Lannion, France 📍

TEDxLannion, *Speaker*

📺 *Unmasking the illusion of audio deepfakes.*

02/2025 📅
Lannion, France 📍

Additional Information

Language	Vietnamese (Native), French (Fluent), English (Working proficiency: IELTS 7.0).
Programming	Python (Pytorch), Java, Slurm, JavaScript, HTML/CSS, SQL.
Community	Reviewer for ICME, Interspeech, SLT, NeurIPS.
Summer School	Summer school on natural language processing (ETAL).