

TERESA PELINSKI

PhD student in AI and Music

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RELEVANT EXPERIENCE

Associate Lecturer

at the Creative Computing Institute, University of the Arts London

Oct. 2024 - Apr. 2025

Teaching three modules at the MSc Applied Machine Learning for Creatives: STEM for Creatives and Artificial Intelligence for Media.

Teaching Assistant

at the Dyson School of Design Engineering at Imperial College London

Nov. 2024

Assisting at the Gizmo: Physical Computing module, part of the MEng Design Engineering.

Intern at Bela

Apr. 2023 - Sept. 2023

Developing pybela, a library for interfacing the Bela embedded platform with python.

Associate Lecturer

at the Creative Computing Institute, University of the Arts London

Oct. 2022 - Dec. 2022

Teaching the Natural Language Processing for the Creative Industries module at the MSc Data Science and AI for the Creative Industries.

Teaching Associate

at Queen Mary University of London

June 2022 - July 2022

Assisting at the Interactive Media Design and Production, module part of the BSc(Eng) Telecommunications Engineering with Management.

Teaching Assistant

at Queen Mary University of London

Jan. 2022 - May 2022

Assisting at the Interaction Design undergraduate module.

EDUCATION

Queen Mary University of London, UK

Sept. 2021 - Present

PhD student at the CDT in Artificial Intelligence and Music, supervised by Prof Andrew McPherson and Prof Rebecca Fiebrink, and supported by UKRI and Bela. Affiliations: Centre for Digital Music (C4DM) and Augmented Instruments Lab. Visiting researcher at Imperial College London and University of the Arts, London. Enrichment Placement Award at the Alan Turing Institute (Oct. 2023 - June 2024).

Universitat Pompeu Fabra, Spain

Sept. 2020 - Aug. 2021

M.Sc. Sound and Music Computing (60 ECTS). Average grade: 97%. Master thesis (Grade: 100%, DOI: 10.5281/zenodo.5554854) supervised by Prof. Sergi Jordà and M.Sc. Behzad Haki at the Music and Multimodal Interaction Lab, part of the Music Technology Group.

RWTH Aachen University + Institute of Technical Acoustics, Germany

Oct. 2018 - Sept. 2019

Erasmus scholarship. 20 ECTS (5 courses) on acoustics at the Institute of Technical Acoustics. Bachelor Thesis supervised by M.Sc. Philipp Schäfer and examined by Prof Michael Vorländer, grade: 95%.

Universidad Autónoma de Madrid, Spain

Sept. 2016 - June 2020

B.Sc. Physics (240 ECTS). Focused on theoretical physics. Average grade: 78%.

Ironhack Madrid, Spain

Oct. 2019 - Apr. 2020

Full-stack web development coding bootcamp.

AWARDS

- PhD Studentship (Sep. 2021 - Sep. 2025) - EPSRC UKRI Centre for Doctoral Training in Artificial Intelligence and Music (EP/S022694/1) at Queen Mary University of London. Covers tuition and living expenses.
- Turing Enrichment Scheme placement (Oct. 2023 - June 2024) at The Alan Turing Institute.
- Erasmus+ grant (Sep. 2018 - Sep. 2019) covering partial expenses for an undergraduate exchange with RTWH Aachen University.
- German Academic Exchange Service (DAAD) stipend for a C1 German course and accommodation at Ludwig Maximilian University of Munich (Aug. 2018) - Hochshulsommerkurse in Deutschland für ausländische Studierende und Graduierte, 2018, 57387787.

SELECTED PUBLICATIONS AND CONFERENCE TALKS

- Pelinski, T., Moro, G. & McPherson, A. (2025). pybela: a Python library to interface scientific and physical computing. in *Proceedings of the International Conference on New Interfaces for Musical Expression*. Canberra, Australia. <https://teresapelinski.com/documents/2025-nime-pybela.pdf> (Conference paper, upcoming)
- Pelinski, T., McPherson, A., & Fiebrink, R. (2025). Ways of knowing, ways of writing: technical practice research in new musical instrument design. *Journal of New Music Research* <https://doi.org/10.1080/09298215.2024.2442348> (Journal paper)
- Pelinski, T. (2024) The dialectics of resistance and accommodation in the practice of debugging. *Code as Conversation: Transmedia Dialogues Around Critical Code Studies*. Cambridge University, UK. (Conference presentation)
- Pelinski, T., Diaz, R., Benito Temprano, A. L., McPherson, A., (2023) Pipeline for Recording Datasets and Running Neural Networks on the Bela Embedded Hardware Platform in *Proceedings of the International Conference on New Interfaces for Musical Expression*. Mexico City, Mexico. http://nime.org/proceedings/2023/nime2023_22.pdf (Conference Paper)
- Haki, B., Pelinski, T., Nieto, M., Jordà, S. (2023). Completing Audio Drum Loops with Symbolic Drum Suggestions in *Proceedings of the International Conference on New Interfaces for Musical Expression*. Mexico City, Mexico (Conference Paper) http://nime.org/proceedings/2023/nime2023_34.pdf
- Pelinski, T., Caspe, F., McPherson, A., Sandler, M., (2023) Computing ecosystems: neural networks and embedded hardware platform in *CHI2023 Workshop - Beyond Prototyping Boards: Future Paradigms for Electronics Toolkits*. Hamburg, Germany. (Workshop position paper)
- Pelinski, T., (2022) Anomaly detection as means of sensing subtlety and nuance in musical gesture in *Embedded Perspectives of Musical AI Workshop*. Oslo, Norway. (Workshop talk)
- Pelinski, T., (2022) Some considerations on the design of digital musical instruments. *Jornada de Organología (Organology Seminar)* at Universidad Complutense de Madrid, Spain. (Invited talk)
- Haki, B., Nieto, M., Pelinski, T. & Jordà, S. (2022). Real-Time Drum Accompaniment Using Transformer Architecture. *Proceedings of the 3rd Conference on AI Music Creativity*. Online, anywhere. (Conference Paper) DOI: <https://doi.org/10.5281/zenodo.7088343>
- Pelinski, T. (2022). Sensor mesh as performance interface. *International Conference on New Interfaces for Musical Expression*. (Doctoral consortium) <https://doi.org/10.21428/92fbeb44.ce842111>
- Pelinski, T., Haki, B., Jordà, S. (2021). Completing Audio Drum Loops with Transformer Neural Networks. *DMRN+16: Digital Musical Research Network One-Day Workshop*. Queen Mary University of London, UK. (Workshop talk) <https://qmro.qmul.ac.uk/xmlui/handle/123456789/76887>

CONFERENCE WORKSHOPS

- Martin, C. P., Pelinski, T. (2024) Building NIMes with Embedded AI. *International Conference on New Interfaces for Musical Expression*. Utrecht, Netherlands. <https://smcclab.github.io/nime-embedded-ai/>
- Jourdan, T., Pelinski, T., Scurto, H. (2024) First-person and second-person perspectives for ML in NIME. *International Conference on New Interfaces for Musical Expression*. Utrecht, Netherlands. <https://pelinski.github.io/first-and-second-person-perspectives-ml-nime/>

- Armitage, J., Shepardson, V., Privato, N., Pelinski, T., Benito Temprano, A. L., Wolstanholme, L., Martelloni, A., Caspe, F. S., Reed, C. N., Skach, S., Diaz, F., O'Brien S. P., Shier, J. (2023). Agential Instruments Design Workshop. *AI and Music Creativity Conference*. Brighton, UK. <https://aimc2023.pubpub.org/pub/25mg4xnz>
- Pelinski, T., Shepardson, V., Symons, S., Caspe, F. S., Benito Temprano, A. L., Armitage, J., Kiefer, C., Fiebrink, R., Magnusson, T., & McPherson, A. (2022). Embedded AI for NIME: Challenges and Opportunities. *International Conference on New Interfaces for Musical Expression*. Online. DOI: 10.21428/92fbeb44.ce842111 <https://embedded-ai-for-nime.github.io/>

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