

# TERESA PELINSKI

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**Technical Skills:** AI, embedded AI, embedded systems, real-time systems, physical computing, web development, self-hosting, application deployment pipelines, Linux system administration

**Research Interests:** critical music technology studies, creative computing, musical instrument design, practice research, human-computer interaction, science and technology studies

## RELEVANT EXPERIENCE

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### Research Fellow

*at the Creative Computing Institute, University of the Arts London* Nov. 2025 - Present  
at the of the ERC Music & Artificial Intelligence: Building Critical Interdisciplinary Studies Research Project (<https://musicairesearch.wordpress.com/>)

### Associate Lecturer

*at the Creative Computing Institute, University of the Arts London* Oct. 2025 - Jan. 2026  
Teaching Multimedia Coding at the MSc Applied ML for Creatives.

### Associate Lecturer

*at the Creative Computing Institute, University of the Arts London* Oct. 2024 - Apr. 2025  
Teaching STEM for Creatives and Artificial Intelligence for Media at the MSc Data Science and AI for the Creative Industries (currently MSc Applied Machine Learning for Creatives).

### Teaching Assistant

*at the Dyson School of Design Engineering at Imperial College London* Nov. 2024 - Dec. 2024  
Assisting at the Gizmo: Physical Computing module, part of the MEng Design Engineering.

### Software Development Internship at Bela

Apr. 2023 - Sept. 2023

Developing pybela, a library for interfacing the Bela embedded platform with Python in the context of embedded AI.

### 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 (currently MSc Applied Machine Learning for Creatives).

### 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 (third year) and graduate module.

## EDUCATION

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### 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 (2023-present), University of

the Arts, London (2023-present) and Berlin University of the Arts (July 2024). Enrichment Placement Award at the Alan Turing Institute (Oct. 2023 - June 2024).

**Universitat Pompeu Fabra, Spain**

*Sept. 2020 - Aug. 2021*

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

**RWTH Aachen University + Institute for Hearing Technology and Acoustics,**

**Germany**

*Oct. 2018 - Sept. 2019*

Erasmus scholarship. 5 modules (20 ECTS) on acoustics at the Institute for Hearing Technology and Acoustics (<https://www.akustik.rwth-aachen.de/>). Bachelor Thesis supervised by MSc Philipp Schäfer and examined by Prof Michael Vorländer, grade: 95%.

**Universidad Autónoma de Madrid, Spain**

*Sept. 2016 - June 2020*

B.Sc. Physics (4 years, 240 ECTS). Focused on theoretical physics. Average grade: 78%.

**Ironhack Madrid, Spain**

*Oct. 2019 - Apr. 2020*

Full-stack web development coding bootcamp.

## **SELECTED PUBLICATIONS AND CONFERENCE TALKS**

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- 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)
- Pelinski, T., McPherson, A., & Fiebrink, R. (2024). Ways of knowing, ways of writing: technical practice research in new musical instrument design. *Journal of New Music Research*, 53(1–2), 79–92. <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](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](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) DOI: <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>

## ORGANISED CONFERENCE WORKSHOPS

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- 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., Martel-Ioni, 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/>

## SELECTED ARTISTIC RESIDENCIES, RELEASES AND PERFORMANCES

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- Sonar+D AI Performance Playground (Barcelona, 2025). I was selected to take part the AI & Music Hack-lab supported by S+T+ARTS, part of Sonar+D 2025. Performance at the Agora Stage on 14-06-2025. <https://sonar.es/en/activity/ai-performance-playground-live>
- Ongoing project with musician Adam Pultz Melbye and their feedback double bass (Berlin, 2024-ongoing), in which we are exploring performing with an ensemble of (real-time) deep learning models, and incorporating them in Adam's feedback instrument. We performed at Embedded Algorithms Workshop held at the Berlin Open Lab, Universität der Kunste, Berlin. <https://www.federicovisi.com/videos-from-the-embedding-algorithms-workshop/>
- Goldsmiths No Input Ensemble (London, May-June 2024). I was part of the Goldsmiths EMS No Input Ensemble. We released an EP with NX Records <https://goldsmithsems.bandcamp.com/album/circuits-1>. During the Spring 2023 semester I was also part of the Goldsmiths Laptop Ensemble.
- Muerte En El Parque (London, 2023-2024). I played the melodic synth at the synthpop band Muerte En El Parque. We played a few concerts including at Rally Festival in August 2023.
- Residency at Noods Radio (Bristol, Aug-Dec 2023). Presented and produced Officium, an hour-long monthly radio show on sacred choral music. <https://noodsradio.com/residents/officium>
- Residency at Phonos Foundation (Barcelona, Oct-Jan 2021/22). Working on "no shell, just a voice", a sound piece and web zine ([noshell.teresapelinski.com](http://noshell.teresapelinski.com)) on the body in artificially-generated voices. The piece was later released in the Phonos Netlabel and shown at the 7th Music and New Technologies International Festival "Visiones Sonoras" in Michoacán, Mexico, in 2021.

## AWARDS

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- 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. Industrial sponsor: Bela (Augmented Instruments Ltd). Covers tuition, living expenses, travel and research budget.
- Turing Enrichment Scheme placement (Oct. 2023 - June 2024) at The Alan Turing Institute, the UK's national institute for data science and artificial intelligence. Stipend and research grant (£1000).
- Erasmus+ grant (Sep. 2018 - Sep. 2019) monthly stipend 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) - Hochschulsommerkurse in Deutschland für ausländische Studierende und Graduierte, 2018, 57387787.

## LANGUAGES

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My native languages are Spanish and Catalan. I have full professional competence in English (Cambridge Certificate of Advanced English awarded in Dec. 2014) and German (Goethe-Zertifikat C1 awarded in Jan. 2020 - official german language certificate). I am also learning French.