ILPO VIERTOLA
DOCTORAL RESEARCHER

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I'm a deep learning doctoral researcher interested in multimodal and generative AI. Leveraging my expertise, I want to develop technologies that help people fulfil their creative needs. Outside of the lab, most of my time is spent around electronic music. As a DJ and event organizer, I have learned what working together with your team under pressure really means.

PROFESSIONAL EXPERIENCE

Doctoral Researcher, Tampere University   **Sep 2023 - Present**
- Focus on multimodal deep learning and generative modeling.

Software Engineer, Microsoft   **May 2023 - Sep 2023**
- Building image quality analysis and testing tool for mobile camera devices.
- Front- and backend development.
- Left for fully funded doctoral program.

Trainee, AAC Technologies   **May 2021 - May 2023**
- Designing and developing an automatic image quality tuning framework.
- Implementing and designing objective and subjective image quality metrics.

EDUCATION

Doctor of Philosophy – Computer Science   **Sep 2023 - Present**
Tampere University

Master of Science – Signal Processing and Machine Learning   **Sep 2021 - May 2023**
Tampere University
- MSc thesis: www.urn.fi/URN:NBN:fi:tuni-202304123649
- BSc thesis: www.urn.fi/URN:NBN:fi:tuni-202104233419

Master of Science – Exchange Study Period   **Sep 2021 - Mar 2022**
Paris Lodron University of Salzburg

SELECTED PUBLICATIONS

- SAGANet: Video Object Segmentation-aware Audio Generation
  - Ilpo Viertola, Vladimir Iashin, Esa Rahtu
  - GCPR 2025 (Oral)
- Temporally Aligned Audio for Video with Autoregression
  - Ilpo Viertola, Vladimir Iashin, Esa Rahtu
  - ICASSP 2025 (Oral)

ADDITIONAL INFORMATION

- **Certifications:**
  - NVIDIA DLI Certificate – Building Transformer-Based Natural Language Processing Applications
- **Awards:**
  - Graduation with Distinction – Tampere University