

ILPO VIERTOLA

DOCTORAL RESEARCHER

Helsinki, Finland | ilpo.viertola@gmail.com | ilpoviertola.github.io

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 camera device image quality tuning purposes. • 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