

Philip Tovstogan

Curriculum Vitae

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📍 Barcelona, Spain

Education

- 2018–2022 **Ph.D. (in-progress)**, *Music Technology Group, Universitat Pompeu Fabra*, Barcelona, Spain.
Supervisors: Xavier Serra, Dmitry Bogdanov
Thesis: Exploration of Music Collections with Audio Embeddings
- 2017–2018 **M.S.**, *Sound and Music Computing, Universitat Pompeu Fabra*, Barcelona, Spain, Grade: 9.0/10.
Supervisors: Dmitry Bogdanov, Alastair Porter
Thesis: Exploring Music Similarity with AcousticBrainz
- 2012–2015 **M.S.**, *Electrical Engineering and Computer Science International Graduate Program, National Yang Ming Chiao Tung University*, Hsinchu, Taiwan, Grade: 90.1/100.
Supervisor: Hsu-Feng Hsiao
Thesis: Optimization of Video Streaming Using Video Quality Estimation and LMRC Channel Coding
- 2008–2012 **B.S.**, *Computer Science, Multimedia & Network Engineering Program, National Yang Ming Chiao Tung University*, Hsinchu, Taiwan, Grade: 90.2/100.

Skills

- Knowledge Deep learning, software engineering, music auto-tagging models, recommendation systems, user-centric evaluation, audio signal processing, system design
- Tech Python, PyTorch (Lightning), Git, Linux, Docker, Flask, REST API, AWS, PostgreSQL, FastAPI, GitHub Actions, Google Cloud, JS

Work Experience

- 2022–now **Data Engineer**, *Utopia Music*, Zug, Switzerland.
◦ Music recommendations, auto-tagging, data pipelines
- 2021 **Researcher**, *Jamendo*, Luxembourg, (internship).
◦ Track-to-track music recommendations based on music embeddings
- 2018–2021 **Predoctoral researcher**, *Music Technology Group, Universitat Pompeu Fabra*, Barcelona, Spain.
- 2018 **Software Developer**, *Music Technology Group, Universitat Pompeu Fabra*, Barcelona, Spain, (internship).
◦ [Freesound.org](https://freesound.org): bugfixes and new features
- 2017 **Software Developer**, *LyraVR*, Taipei, Taiwan.
◦ Cross-platform support: HTC Vive, Oculus Rift

- 2016–2017 **R&D Engineer**, *Bovia*, Zhubei, Taiwan.
- Implementation of Flask-Restful API to control linux system configuration
 - R&D of CI pipeline for firmware building for multiple embedded platforms
 - Establishing startup infrastructure, system administration and support
- 2014–2016 **Software Developer**, *Information and Communications Research Laboratories, Industrial Technology Research Institute*, Hsinchu, Taiwan.
- R&D of various projects based on BeagleBone Black
- 2012–2014 **Research and Teaching Assistant**, *Network and Information Processing Lab, National Yang Ming Chiao Tung University*, Hsinchu, Taiwan.
- 2011–2012 **Software Developer**, *ChangingTec*, Hsinchu, Taiwan, (internship).

Publications (selected)

- 2021 **MediaEval 2021: Emotion and Theme Recognition in Music using Jamendo.** Tovstogan, P., Bogdanov, D., and Porter, A. *Working Notes Proceedings of the MediaEval 2021 Workshop*, Online
- 2020 **Web Interface for Exploration of Latent and Tag Spaces in Music Auto-Tagging.** Tovstogan P., Serra X., and Bogdanov D. *Machine Learning for Media Discovery Workshop (ML4MD), International Conference on Machine Learning (ICML)*, Vienna, Austria
- 2019 **The MTG-Jamendo Dataset for Automatic Music Tagging.** Bogdanov, D., Won M., Tovstogan P., Porter A., and Serra X. *Machine Learning for Music Discovery Workshop (ML4MD), International Conference on Machine Learning (ICML)*, Long Beach, CA, United States

Awards and Honors (selected)

- 2018–2021 Marie Skłodowska-Curie Fellowship (MIP-Frontiers)
- 2018 Best Project for Music Streaming Services from HAMR@ISMIR2018
- 2009–2013 Golden Bamboo Scholarship (average grade > 85/100, 8 semesters)
- 2009–2012 Academic Achievement Award (top 3 students, 4 semesters)
- 2012 Outstanding New Student Scholarship (1 semester)

Other relevant experience

- 2020–2021 Reviewer for International Society in Music Information Retrieval (ISMIR) conference
- 2019–2021 Member of organizing team of *Emotions and Themes in Music* task within Multimedia Benchmarking Initiative (MediaEval)
- 2021 Papers chair and member of organizing committee for Web Audio Conference (WAC)

Languages

Ukrainian **Native**
 Russian **Native**
 English **Fluent**

TOEFL 113 iBT @ 2013

Spanish **Advanced**
Mandarin **Intermediate**

Con conversationally fluent
Professional capability