

Alessandro B. Melchiorre

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Experience & Education

- 2019 – Present
(Expected End 2024) **Johannes Kepler Universität Linz** – Linz, Austria
PhD Student
Institute of Computational Perception and Linz Institute of Technology PhD School
Supervisor: Prof. Mag. Dr. Markus Schedl
- 2018 – 2019
(6 months) **Technische Universität Berlin** – Berlin, Germany
Awarded with a scholarship to write the master's thesis abroad
Database Systems and Information Management Group
Supervisors: Prof. Dr. Volker Markl and Dr. Kaustubh Beedkar
- 2016 – 2019 **Sapienza - Università di Roma** – Rome, Italy
MSc
Engineering in Computer Science with focus on Machine Learning and Big Data
Grade: 110/110 Cum Laude – Weighted Mark Average: 29.7/30
- 2013 – 2016 **Università degli Studi di Napoli Federico II** – Naples, Italy
BSc
Engineer in Computer Science
Grade: 110/110 Cum Laude – Weighted Mark Average: 29.6/30

Publications

- 2023 **EmoMTB: Emotion-aware Music Tower Blocks**
[A. B. Melchiorre](#), D. Penz, C. Ganhör, O. Lesota, V. Fragoso, F. Fritzl, E. Parada-Cabaleiro, F. Schubert, M. Schedl
Journal in International Journal of Multimedia Information Retrieval (IJMIR)
- 2022 **ProtoMF: Prototype-based Matrix Factorization for Effective and Explainable Recommendations**
[A. B. Melchiorre](#), C. Ganhör, N. Rekabsaz, M. Schedl
Paper at ACM Conference on Recommender Systems (RecSys)
- 2022 **Explainability in Music Recommender Systems**
D. Afchar*, [A. B. Melchiorre*](#), M. Schedl, R. Hennequin, E. V. Epure, M. Moussallam
Article in AI Magazine 2022

- 2022 **Exploring Cross-group Discrepancies in Calibrated Popularity for Accuracy-Fairness Trade-off Optimization**
O. Lesota, S. Brandl, M. Wenzel, [A. B. Melchiorre](#), E. Lex, N. Rekabsaz, M. Schedl
Workshop Paper at ACM Conference on Recommender Systems (RecSys)
- 2022 **EmoMTB: Emotion-aware Music Tower Blocks**
[A. B. Melchiorre](#), D. Penz, C. Ganhör, O. Lesota, V. Fragoso, F. Fritzl, E. Parada-Cabaleiro, F. Schubert, M. Schedl
Demo Paper at International Conference on Multimedia Retrieval (ICMR)
- 2021 **Investigating Gender Fairness of Recommendation Algorithms in the Music Domain**
[A. B. Melchiorre](#), N. Rekabsaz, E. Parada-Cabaleiro, S. Brandl, O. Lesota, M. Schedl
Journal in Information Processing & Management - Special Issue on Algorithmic Bias and Fairness in Search and Recommendation
- 2021 **LEMONS: Listenable Explanations for Music recOmmeNder Systems**
[A. B. Melchiorre*](#), V. Praher*, M. Schedl, G. Widmer
Demo Paper at European Conference on Information Retrieval (ECIR)
- 2021 **Analyzing Item Popularity Bias of Music Recommender Systems: Are Different Genders Equally Affected?**
O. Lesota, [A. B. Melchiorre](#), N. Rekabsaz, S. Brandl, D. Kowald, E. Lex, M. Schedl
Extended Abstract at ACM Conference on Recommender Systems (RecSys)
- 2020 **Personality Bias of Music Recommendation Algorithms**
[A. B. Melchiorre](#), E. Zangerle, M. Schedl
Short Paper at ACM Conference on Recommender Systems (RecSys)
- 2020 **Personality Correlates of Music Audio Preferences for Modelling Music Listeners**
[A. B. Melchiorre](#), M. Schedl
Short Paper at ACM Conference on User Modeling, Adaptation and Personalization (UMAP)
- 2020 **Pandemics, Music, and Collective Sentiment: Evidence from the Outbreak of COVID-19**
M. Liu, E. Zangerle, X. Hu, [A. B. Melchiorre](#), M. Schedl
Paper at International Society for Music Information Retrieval Conference (ISMIR)

Skills

Programming Languages

Proficient in: Python, SQL, Java

Familiar with: C/C++, JavaScript

Software

PyTorch, NumPy, SciPy, pandas, Ray Tune, scikit-learn, matplotlib, Git, Conda, Jupyter, Weight&Biases, bash

Previous Experience: Apache Spark, Keras, TensorFlow, Apache Hadoop, Apache Kafka, Apache Calcite

Languages

Italian (Native), English (Fluent), German (Beginner)

Science Communication Projects

2022 **Black Holes of Popularity at the ARS Electronica Festival 2022**

PI role - Funding 62.000 EUR - 11 People

2021 **Emotion-aware Music Tower Blocks at the ARS Electronica Festival 2021**

Co-PI - Funding 54.000 EUR - 9 People

Reviewer Experience

2023 **ACM Conference on Recommender Systems (RecSys)**

Main Conference

2023 **ACM Transactions on Recommender Systems (TORS)**

2022 - 2023 **ACM Multimedia (ACMMM)**

Main Conference

2023 **2nd Workshop on Human-Centric Music Information Retrieval (HCMIR23)**

ISMIR 2023 Satellite Event

2021 **Web Conference (TheWebConf)**

User Modeling and Personalization

2020 - 2021 **ACM Conference on User Modeling, Adaptation and Personalization (UMAP)**

Main Track (2020), Demo and Late-Breaking Results (2021)