




# Marta Moscati

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## WORK EXPERIENCE

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- PhD Student** | Department of Computer Science | *Johannes Kepler University Linz, Austria* 2021 – Present  
 Research in Recommender Systems at the Multimedia Mining and Search group led by Markus Schedl.  
 Supervising Master (5) and Bachelor (2) theses.  
 PC Member of CARS@RecSys 2023, Subreviewer for SIGIR 2023.
- High School Teacher** | Mathematics, Physics, Informatics | *European School Karlsruhe, Germany* 2020 – 2021
- Postdoc** | **PhD Student** | Department of Physics | *Karlsruhe Institute of Technology, Germany* 2016 – 2019  
 Research on semileptonic meson decays at the Institute of Theoretical Particle Physics.  
 Leading the weakly tutorials for courses in Theoretical Particle Physics.
- Research Intern** | Department of Physics | *Université Paris-Saclay* Mar. - Jun. 2016  
 Research on semileptonic meson decays at the Laboratory of Theoretical Physics.

## EDUCATION

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- PhD** | Computer Science | *Johannes Kepler University Linz, Austria* Ongoing (Exp. Sep. 2025)
- Nanodegrees** | *NLP, Deep Learning, and Data Engineering* | *Udacity* 2020
- PhD** | Physics | *Karlsruhe Institute of Technology, Germany* Oct. 2019  
 Magna cum Laude
- MSc** | Physics | *Università degli Studi di Napoli Federico II, Italy* Jul. 2016  
 110/110 e lode
- Erasmus Exchange Student** | Physics | *Université Paris Diderot, France* Sep. 2015 – Mar. 2016
- BSc** | Physics | *Università degli Studi di Napoli Federico II, Italy* Dec. 2013  
 110/110 e lode

## PROJECTS

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- RecSysLearn** | *Python library for the evaluation of recommendation lists.* Python, Git, pandas, numpy
- Pacifier** | *Tool for converting the melody of songs into lullabies.* Python, Git, pretty\_midi, spleeter, basic-pitch

## AWARDS, PRIZES, AND SCHOLARSHIPS

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- The Sound of AI Hackathon** | *Member of the winner team (Pacifier)* Jul. 2022
- Best Talk** | *Intensity frontier of IFAE 2019* Apr. 2019
- PhD scholarship** | *Karlsruhe School of Elementary Particle and Astroparticle Physics: Science and Technology2016*

## SKILLS

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- Programming:** Python, bash, Wolfram Mathematica, Matlab, C/C++
- Libraries:** pandas, NumPy, scipy, PyTorch, tensorflow, scikitlearn, Matplotlib, seaborn
- Tools:** Git/GitHub, Unix Shell, PyCharm
- Languages:** Italian (C2), English (C2), German (C1), French (B1), Chinese Mandarin (A1)

- [1] Marta Moscati, Christian Wallmann, Markus Reiter-Haas, Dominik Kowald, Elisabeth Lex, and Markus Schedl. “Integrating the ACT-R Framework with Collaborative Filtering for Explainable Sequential Music Recommendation”. In: *Proc. of ACM RecSys*. Singapore, 2023.
- [2] Marta Moscati, Yashar Deldjoo, Giulio Davide Carparelli, and Markus Schedl. “Multiobjective Hyperparameter Optimization of Recommender Systems”. In: *Proc. of Perspectives – ACM RecSys*. Singapore, 2023.
- [3] Marta Moscati, Emilia Parada-Cabaleiro, Yashar Deldjoo, Eva Zangerle, and Markus Schedl. “Music4All-Onion – A Large-Scale Multi-Faceted Content-Centric Music Recommendation Dataset”. In: *Proc. of CIKM. 2022*, pp. 4339–4343.
- [4] Andreas Peintner, Marta Moscati, Emilia Parada-Cabaleiro, Markus Schedl, and Eva Zangerle. “Unsupervised Graph Embeddings for Session-based Recommendation with Item Features”. In: *Proc. of CARS – ACM RecSys. 2022*.
- [5] Marta Moscati. “Lepton Flavour Non-Universality - From Effective Field Theory to Extended Gauge Models”. PhD thesis. KIT, Karlsruhe, 2019.
- [6] Marta Moscati. “New Physics in  $b \rightarrow c\tau\nu$ : Impact of Polarisation Observables and  $B_c \rightarrow \tau\nu$ ”. In: *Proc. of FPCP. 2019*.
- [7] Moscati, Marta, Monika Blanke, and Ulrich Nierste. “Interplay of  $\mathbf{R}_{D^{(*)}}$  and  $\mathbf{Z}\ell\ell$  in the Scalar Leptoquark Scenario”. In: *Springer Proc. Phys.* 234 (2019), pp. 431–437.
- [8] Marta Moscati, Monika Blanke, Andreas Crivellin, Teppei Kitahara, Ulrich Nierste, and Ivan Nišandžić. “Addendum to “Impact of polarization observables and  $B_c \rightarrow \tau\nu$  on new physics explanations of the  $b \rightarrow c\tau\nu$  anomaly””. In: *Phys. Rev. D* 100.10 (2019), p. 035035.
- [9] Marta Moscati, Monika Blanke, Andreas Crivellin, Stefan de Boer, Teppei Kitahara, Ulrich Nierste, and Ivan Nišandžić. “Impact of polarization observables and  $B_c \rightarrow \tau\nu$  on new physics explanations of the  $b \rightarrow c\tau\nu$  anomaly”. In: *Phys. Rev. D* 99.7 (2019), p. 075006.
- [10] Marta Moscati, Sébastien Descotes-Genon, Marta Moscati, and Giulia Ricciardi. “Nonminimal 331 model for lepton flavor universality violation in  $b \rightarrow s\ell\ell$  decays”. In: *Phys. Rev. D* 98.11 (2018), p. 115030.