

Luciano Melodia

Curriculum vitae

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📍 Gebbertstraße 95, 91058 Erlangen

♂ Born on 27.03.1994

📖 Bavaria, Germany

EDUCATION

| | |
|----------------|--|
| 2021–24, B.Sc. | Mathematics, Computer Science, FAU Erlangen-Nürnberg. |
| 2018–21 | Graduate Program in Computer Science, FAU Erlangen Nürnberg. |
| 2015–18, M.A. | Information Science, Regensburg University. |
| 2012–15, B.A. | German Philology, Italian Philology, Information Science, Media Informatics, Regensburg University. |
| 2012–13 | Web Developer Certificate, Rechenzentrum Regensburg University. |
| 2012 | Abitur, Albertus-Magnus-Gymnasium, Regensburg. |

PROFESSIONS

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| 2021–22 | Working Student Corscience GmbH & Co. KG, Erlangen. |
| 2020–21 | Researcher Professorship for Evolutionary Data Management, FAU Erlangen-Nürnberg. |
| 2018–21 | Researcher Chair of Computer Science 6, FAU Erlangen-Nürnberg. |
| 2020–21 | Researcher Siemens Energy AG, Erlangen. |
| 2019–20 | Researcher Siemens Gas and Power GmbH & Co. KG, Erlangen. |
| 2017–18 | Data Scientist at mb Support GmbH, Regensburg. |
| 2015–17 | Working Student mb Support GmbH, Regensburg. |
| 2014–15 | Research Assistant Chair of German Linguistics, Regensburg University. |
| 2013–14 | Student assistant Chair of German Linguistics, Regensburg University. |
| 2012–15 | Chef in Event Gastronomy Apostelkeller, Regensburg. |
| 2012–15 | Staff-based Services Trademarketing Service GmbH, Salzgitter. |
| 2012–14 | Translator for Italian and English at Anatol GmbH & Co. KG, Regensburg. |
| 2010 | Compassion Project, Alten- und Pflegeheim St. Josef, Regensburg. |

CONFERENCES ATTENDED

| | |
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| 2022 | LOG, virtual. |
| 2022 | ICLR, virtual. |
| 2021 | ML4ITS, Bilbao, Spain. |
| 2021 | ICPR, Milano, Italy. |
| 2020 | TDA and Beyond, NeuRIPS, Vancouver, Canada. |
| 2020 | ICPMD, Kerala, India. |
| 2020 | IWCIA, Novi Sad, Serbia. |
| 2020 | ECML/PKDD, Gent, Belgium. |
| 2019 | ECML/PKDD, Würzburg, Germany. |
| 2019 | SIGMOD/PODS, Amsterdam, Netherlands. |
| 2017 | TCLS, Regensburg, Germany. |
| 2013 | (De-)S/S&SSP, Prague, Czech Republic. |

LECTURES HELD

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| FAU 2021 | Knowledge Discovery in Databases. |
| FAU 2020 | Persistent Homology in Data Analytics. |
| FAU 2020 | Topological Data Analysis. |
| FAU 2019–2020 | Process Oriented Information Systems. |
| FAU 2018–2021 | New Technologies in Data Management. |
| FAU 2018–2020 | Computer Science for Engineers. |
| FAU 2018–2019 | Big Data Seminar. |
| FAU 2018 | Conceptional Modeling. |

TALKS GIVEN

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| 2021 | Homological Time Series Analysis of Sensor Signals from Power Plants, ML4ITS. |
| 2021 | Homological Inference of Embedding Dimension in Neural Networks, IMTA, Milano. |
| 2020 | Simplicial Databases, Schemas and Realisations, FAU Erlangen-Nürnberg. |
| 2020 | Tools for Schema Inference, Siemens AG. |
| 2020 | Introduction to Persistent Homology, Christ Nagar College, Kerala, India. |
| 2020 | Stop Interpolation Topologically, IWCI, Novi Sad. |
| 2020 | Homological Perspective on Data, FAU Erlangen-Nürnberg. |
| 2019 | Literature and Tools for Topological Data Analysis, Siemens AG. |
| 2019 | Topological Data Analysis in Machine Learning, FAU Erlangen-Nürnberg. |
| 2015 | The Scientific Social Network <i>punc.space</i> . Regensburg University. |
| 2014 | Brauchen mit zu und Infinitiv. Univerzita Karlova, Prague. |



PUBLIC SERVICE

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| 2022 | Reviewer, Learning on Graphs, LOG. |
| 2022 | Reviewer, Geometrical and Topological Representation Learning, ICLR. |
| 2020 | Reviewer, TDA and Beyond, NeuRIPS. |
| 2020 | Reviewer, ECML/PKDD. |
| 2019–20 | Member Gesellschaft für Informatik e.V. |
| 2017–18 | Member Computational Intelligence and Machine Learning Group. |
| 2016 | Student Representative Information Science, University of Regensburg. |

SUPERVISION

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| 2021, B.Sc. | D. Hahn: Classification of Sensor Signals from Power Plants. |
| 2021, M.Sc. | C. Sauerhammer: A Classification Dashboard for Sensor Signals from Power Plants. |
| 2021, B.Sc. | J. Schäfer: Learning Validation Models from Sensors of a Power Plant. |
| 2020, M.Sc. | M. Seidel: Classification of Microbes using Time Series Gas Sensor Array Data. |
| 2020, M.Sc. | M.R. Siddiqui: Extraction of Fetal and Maternal Heartbeats from ECG Signals. |

PAPERS

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| 2021,   | Luciano Melodia and <u>Richard Lenz</u> : Homological Time Series Analysis of Sensor Signals from Power Plants. Machine Learning for Irregular Time Series. Machine |
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