

Luciano Melodia

Curriculum vitae

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♂ Born on 27.03.1994

📖 Bavaria, Germany

EDUCATION

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

PROFESSIONS

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

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

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

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

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

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

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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