



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 6648

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Filosofia dell'Università degli Studi di Milano**

Scientist- in - charge: Prof. Hosni Hykel

**Krishna Balajirao Manoorkar**

## CURRICULUM VITAE

### PERSONAL INFORMATION

Surname	Manoorkar
Name	Krishna Balajirao

### PRESENT OCCUPATION

Appointment	Structure
PhD Candidate, VU Amsterdam, Netherlands	2021- present

### EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	M.Sc. Mathematics	Technion University, Haifa, israel	2021
Specialization			
PhD			
Master	M.Sc. Mathematics	Technion University, Haifa, israel	2021
Degree of medical specialization			
Degree of European specialization			
Other			



## REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date registration	of Association	City

## FOREIGN LANGUAGES

Languages	level of knowledge
English	Fluent

## AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2019	Technion Graduate Scholarship

## TRAINING OR RESEARCH ACTIVITY

description of activity : PhD candidate, VU Amsterdam, the Netherlands
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## PROJECT ACTIVITY

Year	Project
2021-present	Working as a PhD student on the project <b>explainable AI for Auditing</b> under leadership of Prof. Alessandra Palmigiano

## PATENTS

Patent
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## CONGRESSES AND SEMINARS

Date	Title	Place
19/05/2024	Description logic for rough concepts	IJCRS 2024, Halifax, Canada
22/04/2024	Non-distributive description logic	ABRI PhD day, VU Amsterdam, Netherlands
05/10/2023	Multi-type logics for interrogative agendas	CELIA 2023, Prague, Czechia
03/10/2023	Explainable AI and categorization	EGS research seminar, VU Amsterdam, the Netherlands
27/09/2023	Causal Kripke models	MOSAIC 2023, Vienna, Austria
20/09/2023	Non-distributive description logic	TABLEAUX 2023, Prague, Czechia



04/03/2023	Labelled calculi for the logics of rough concepts	ICLA 2023, Indore, India
29/06/2023	Causal Kripke models	TARK 2023, Oxford, UK
22/09/2022	Subordination algebras as semantic environment of input/output logic	WoLLIC 2022, Iasi, Romania
22/06/2022	Interrogative agendas, categorization, and decision-making	TACL 2022, Coimbra, Portugal
20/06/2022	Probability via logic: semantic analysis and proof theory	TACL 2022, Coimbra, Portugal
04/03/2019	Logics for rough concept analysis	ICLA 2019, Delhi, India
03/07/2018	Multi-type rough algebras	Algebraic Proof Theory for Social Behaviour workshop, TU Delft, the Netherlands

## PUBLICATIONS

Books
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Articles in reviews
Outlier detection using flexible categorisation and interrogative agendas, with Marcel Boersma, Alessandra Palmigiano, Mattia Panettiere, Apostolos Tzimoulis, and Nachoem Wijnberg, <i>Decision Support Systems</i> , <a href="https://doi.org/10.1016/j.dss.2024.114196">doi.org/10.1016/j.dss.2024.114196</a> , (2024).
Modal reduction principles: a parametric shift to graphs, with Willem Conradie, Alessandra Palmigiano, and Mattia Panettiere, <i>Journal of Applied Non-Classical Logics</i> , <a href="https://doi.org/10.1080/11663081.2024.2336377">doi.org/10.1080/11663081.2024.2336377</a> , (2024).
Modal reduction principles across relational semantics, with Willem Conradie, Andrea De Domenico, Alessandra Palmigiano, Mattia Panettiere, and Daira Pinto Prieto, <i>Fuzzy Sets and Systems</i> , <a href="https://doi.org/10.1016/j.fss.2024.108892">doi.org/10.1016/j.fss.2024.108892</a> , (2023).
Rough concepts, with Willem Conradie, Sabine Frittella, Sajad Nazari, Alessandra Palmigiano, Apostolos Tzimoulis, and Nachoem M Wijnberg, <i>Information Sciences</i> , <a href="https://doi.org/10.1016/j.ins.2020.05.074">doi.org/10.1016/j.ins.2020.05.074</a> , (2021).
Toward a Dempster-Shafer theory of concepts, with Sabine Frittella, Krishna Manoorkar, Alessandra Palmigiano, Apostolos Tzimoulis, and Nachoem Wijnberg, <i>International Journal of Approximate Reasoning</i> <a href="https://doi.org/10.1016/j.ijar.2020.05.004">doi: 10.1016/j.ijar.2020.05.004</a> , (2020).

Congress proceedings
Toward the van Benthem Characterization theorem for non-distributive modal logic, with Yiwen Ding, Mattia Panettiere, and Ruoding Wang, <i>Advances in Modal Logic</i> 2024.
Description logic for rough concepts, with Andrea De Domenico, and Alessandra Palmigiano, <i>International Joint Conference on Rough Sets</i> , 2024.
Non-distributive description logic, with Ineke van der Berg, Andrea De Domenico, Giuseppe Greco, Alessandra Palmigiano, and Mattia Panettiere, <i>International Conference on Automated Reasoning with Analytic Tableaux and Related Methods</i> , 2023.
Causal Kripke models, with Yiwen Ding, Apostolos Tzimoulis, Ruoding Wang, and Xiaolong Wang, <i>Theoretical Aspects of Rationality &amp; Knowledge</i> , 2023.
Labelled calculi for lattice-based modal logics, with Ineke van der Berg, Andrea De Domenico, Giuseppe



Greco, Alessandra Palmigiano, and Mattia Panettiere, <i>Proc. ICLA 2023</i> , Springer LNCS 13963 (2023), 23-47.
Labelled calculi for the logics of rough concepts, with Ineke van der Berg, Andrea De Domenico, Giuseppe Greco, Alessandra Palmigiano, and Mattia Panettiere, <i>Proc. ICLA 2023</i> , Springer LNCS 13963 (2023), 172-188.
Describing and quantifying contradiction between pieces of evidence via Belnap Dunn logic and Dempster-Shafer theory, with Marta Bilkova, Sabine Frittella, Daniil Kozhemiachenko, and Ondrej Majer, <i>International Symposium on Imprecise Probability: Theories and Applications 2023</i> , PMLR 215:37-47, 2023.
Subordination algebras as semantic environment of input/output logic, with Andrea De Domenico, Ali Farjami, Alessandra Palmigiano, Mattia Panettiere, and Xiaolong Wang, <i>International Workshop on Logic, Language, Information, and Computation 2023</i> , Springer LNCS 13468 (2022), 326-343.
Logics for rough concept analysis, with Giuseppe Greco, Peter Jipsen, Alessandra Palmigiano, and Apostolos Tzimoulis, <i>Proc. ICLA 2019</i> , Springer LNCS 11600 (2019), 144-159.
Proper display calculi for rough algebras, with Giuseppe Greco, Fei Liang, and Alessandra Palmigiano, <i>Workshop on Logical and Semantic Frameworks with Applications, LSFA 2018</i> .

## OTHER INFORMATION

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Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

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Place and date: Orange county, California, USA, 31st May 2024