

Ionel Eduard Stan

WORK EXPERIENCE	
[1 Mar 2023 – Current]	Postdoctoral researcher
	Liberà Università di Bozen-Bolzano
	City: Bozen-Bolzano Country: Italy
	Contributed to Research Topic 4 (Artificial Intelligence and Data Science) of Spoke 3 (Green and digital transition for advanced manufacturing technologies) of the Piano Nazionale di Ripresa e Resilienza (PNRR) Interconnected Nord-Est Innovation Ecosystem (iNEST) project.
[1 Oct 2019 – 31 Jan 2023]	Graduate teaching assistant
	Università degli Studi di Ferrara
	City: Ferrara Country: Italy
	• Accelerated students' success rate for Algorithms and Data Structures (620 students; 155 on average per year), Databases and Laboratory (255
	students; 85 on average per year), and Probability Calculus and Statistics (130 students)
	Coordinated more than 5 theses with keen students receiving excellent feedback
[1 Apr 2012 – 30 Jun 2014]	Inside technical sales representative
	Dek srl
	City: Bologna Country: Italy
EDUCATION AND TRAINING	
[1 Nov 2019 – 27 Feb 2023]	Ph.D. in Mathematics
	Università degli Studi di Parma
	City: Parma Country: Italy Final grade: Excellent cum Laude Thesis: Foundations of Modal Symbolic Learning
[1 Oct 2017 – 18 Oct 2019]	M.Sc. in Computer Science
	Università degli Studi di Udine
	City: Udine Country: Italy Final grade: 110/110 cum Laude Thesis: Multiple Formulas and Multiple Models Finite Interval-based Model Checking
[1 Oct 2014 – 13 Jul 2017]	B.Sc. in Computer Science
	Università degli Studi di Ferrara
	City: Ferrara Country: Italy Final grade: 110/110 cum Laude Thesis: Implementation of a Tableau-based Satisfiability Checker for the Logic HS3
LANGUAGE SKILLS	
	Mother tongue(s): Romanian
	Other language(s):
	Italian
	LISTENING C2 READING C2 WRITING C2
	SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2
	English
	LISTENING C1 READING C1 WRITING B2
	SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Spanish

LISTENING B2 READING B2 WRITING B1 SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

French

LISTENING A2 READING A2 WRITING A2 SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

My Digital Skills

Python | Julia | R | Java | C/C++ | LaTeX | MATLAB | JavaScript | SQL

PUBLICATIONS

[2023] Statistical Rule Extraction for Gas Turbine Trip Prediction

Reference: Journal of Engineering for Gas Turbines and Power vol. 145 nr. 5. Bechini et al.

[2023] Fuzzy Halpern and Shoham's interval temporal logics

Reference: Fuzzy Sets and Systems vol. 456 pp. 107--124. Conradie et al.

The voice of COVID-19: Breath and cough recording classification with temporal decision trees and random forests

Reference: Artificial Intelligence in Medicine vol. 137 p. 102486. Manzella et al.

Feature and Language Selection in Temporal Symbolic Regression for Interpretable Air [2021] Quality Modelling

Reference: Algorithms vol. 14 nr. 3 p. 76. Lucena-Sánchez et al.

[2019] On coarser interval temporal logics

Reference: Artificial Intelligence vol. 266 pp. 1--26. Muñoz-Velasco et al.

[2023] (Un)supervised Univariate Feature Extraction and Selection for Dimensional Data Reference: Proc. of the 2nd ITADATA. CEUR vol. 3606. Cavina et al.

A Sound and Complete Tableau System for Fuzzy Halpern and Shoham's Interval

- [2023] Temporal Logic Reference: Proc. of the 30th TIME. LIPIcs vol. 278 pp. 9:1--9:14. Conradie et al.
- [2023] Evolutionary Explainable Rule Extraction from (Modal) Random Forests Reference: Proc. of the 26th ECAI. FAIA vol. 372 pp. 827--834. Ghiotti et al.
- [2023] Efficient Modal Decision Trees

Reference: Proc. of the 32nd AlxIA. LNCS vol. 14318 pp. 381--395. Manzella et al.

[2022] Decision Trees with a Modal Flavor

Reference: Proc. of the 31st AlxIA. LNCS vol. 13796 pp. 47--59. Della Monica et al.

[2022] On Modal Logic Association Rule Mining

Reference: Proc. of the 23rd ICTCS. CEUR vol. 3284 pp. 53--65. Stan et al.

[2022] Neural-Symbolic Temporal Decision Trees for Multivariate Time Series Classification Reference: Proc. of the 29th TIME. LIPIcs vol 247 pp. 13:1--13:15. Pagliarini et al.

- [2021] Interval Temporal Random Forests with an Application to COVID-19 Diagnosis Reference: Proc. of the 28th TIME. LIPIcs vol. 206 pp. 7:1--7:18. Manzella et al.
- [2021] Multi-Frame Modal Symbolic Learning Reference: Proc. of the 3rd OVERLAY. CEUR vol. 2987 pp. 37--41. Pagliarini et al.
- [2020] Time Series Checking with Fuzzy Interval Temporal Logics
 Reference: Proc. of the 21st ICTCS. CEUR vol. 2756 pp. 250--262. Conradie et al.
 Symbolic Learning with Interval Temporal Logic: the Case of Regression
 Reference: Proc. of the 2nd OVERLAY. CEUR vol. 2785 pp. 5--9. Lucena-Sánchez et al.
- [2020] A Note on Ultimately-Periodic Finite Interval Temporal Logic Model Checking Reference: Proc. of the 2nd OVERLAY. CEUR vol. 2785 pp. 11--15. Della Monica et al.
- [2020] Rule Extraction via Dynamic Discretization with an Application to Air Quality Modelling Reference: Proc. of the 14th RULE+RR. CEUR vol. 2644 pp. 42--57. Kaminska et al.
- [2020] Knowledge Extraction with Interval Temporal Logic Decision Trees Reference: Proc. of the 27th TIME. LIPIcs vol. 178 pp. 9:1--9:16. Sciavicco and Stan
- [2019] Interval Temporal Logic Decision Tree Learning Reference: Proc. of the 16th JELIA. LNCS vol. 11468 pp. 778--793. Brunello et al.
- [2019] Towards Interval Temporal Logic Rule-Based Classification Reference: Proc. of the 1st OVERLAY. CEUR vol. 2509 pp. 65--70. Lucena-Sánchez et al.
- [2019] Towards a General Method for Logical Rule Extraction from Time Series Reference: Proc. of the 8th IWINAC. LNCS vol. 11487 pp. 3--12. Sciavicco et al.
- [2017] Implementation of a Tableau-based Satisfiability Checker for HS3 Reference: Proc. of the 18th CILC. CEUR vol. 1949 pp. 326--340. Muñoz-Velasco et al.

HONOURS AND AWARDS

- [2021] Finalist Awarding institution: Huawei University Challange
- [2020] Best M.Sc. Graduate Student in Computer Science Awarding institution: Università degli Studi di Udine Awarded with 1000€