

Stylianos Loukas Vasileiou

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New Mexico State University
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RESEARCH INTERESTS

Human-Aware AI: Explainable Decision-Making, Collaborative Decision-Making, User Modeling
Knowledge Representation & Reasoning: Formal Logic, Argumentation, Planning, Belief Revision
Other: Neuro-symbolic AI

EDUCATION

PH.D. IN COMPUTER SCIENCE Washington University in St. Louis	FL' 2018 – SP' 2025 St. Louis, USA
M.S. IN ARTIFICIAL INTELLIGENCE University of Southampton	FL' 2016 – FL' 2017 Southampton, UK
M.S. IN APPLIED MATHEMATICS University of Glasgow	FL' 2015 – FL' 2016 Glasgow, UK
B.S. IN STATISTICS AND ACTUARIAL-FINANCIAL MATHEMATICS University of the Aegean	FL' 2010 – FL' 2014 Samos, GR

PROFESSIONAL EXPERIENCE

NEW MEXICO STATE UNIVERSITY Assistant Professor, Department of Computer Science	2025 – Las Cruces, USA
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PUBLICATIONS

Preprints & Under Review

- [1] Ben Rachmut, **Stylianos Loukas Vasileiou**, Nimrod Meir Weinstein, Roie Zivan, and William Yeoh. “Explainable Distributed Constraint Optimization Problems”. In: *arXiv preprint arXiv:2502.14102*. 2025.
- [2] Yinxu Tang, **Stylianos Loukas Vasileiou**, Derkinderen Vincent, and William Yeoh. “Model Reconciliation via Cost-Optimal Explanations in Probabilistic Logic Programming”. In: 2025.
- [3] **Stylianos Loukas Vasileiou**, Antonio Rago, Maria Vanina Martineze, and William Yeoh. “How Do People Revise Inconsistent Beliefs? Towards a More Human-Aware Belief Revision”. In: *arXiv preprint arXiv:2405.19238*. 2024.
- [4] **Stylianos Loukas Vasileiou**, William Yeoh, Alessandro Previti, and Tran Cao Son. “On Generating Monolithic and Model Reconciling Explanations in Probabilistic Scenarios”. In: *arXiv preprint arXiv:2405.19229*. 2024.
- [5] Yinxu Tang, **Stylianos Loukas Vasileiou**, William Yeoh, Alberto Pozanco, and Daniel Borrajo. “A Proactive-Reactive Framework for Fairness-Aware Lifelong Meeting Scheduling”. In: 2024.

Journal Articles

- [1] **Stylianos Loukas Vasileiou**, William Yeoh, Tran Cao Son, Ashwin Kumar, Michael Cashmore, and Daniele Magazzeni. “A Logic-based Explanation Generation Framework for Classical and Hybrid Planning Problems”. In: *Journal of Artificial Intelligence Research (JAIR)* (2022).

Conference Papers

- [1] Antonio Rago, **Stylianios Loukas Vasileiou**, Francesca Toni, William Yeoh, and Tran Cao Son. “A Methodology for Incompleteness-Tolerant and Modular Gradual Semantics for Argumentative Statement Graphs”. In: *International Conference on Principles of Knowledge Representation and Reasoning*. 2025.
- [2] **Stylianios Loukas Vasileiou** and William Yeoh. “A Hybrid Logic-LLM System for Explainable Course Scheduling”. In: *International Conference on Principles of Knowledge Representation and Reasoning*. 2025.
- [3] **Stylianios Loukas Vasileiou** and William Yeoh. “TRACE-cs: A Synergistic Approach to Explainable Course Scheduling Using LLMs and Logic”. In: *AAAI Conference on Artificial Intelligence (Demo Track)*. 2025.
- [4] Yinxu Tang, **Stylianios Loukas Vasileiou**, and William Yeoh. “Does Your AI Agent Get You? A Personalizable Framework for Approximating Human Models from Argumentation-based Dialogue Traces”. In: *AAAI Conference on Artificial Intelligence*. 2025.
- [5] **Stylianios Loukas Vasileiou**, Ashwin Kumar, William Yeoh, Tran Cao Son, and Francesca Toni. “Dialectical Reconciliation via Structured Argumentative Dialogues”. In: *International Conference on Principles of Knowledge Representation and Reasoning*. 2024, pp. 777–787.
- [6] **Stylianios Loukas Vasileiou**, Xu Borong, and William Yeoh. “A Logic-based Framework for Explainable Agent Scheduling Problems”. In: *European Conference on Artificial Intelligence (ECAI)*. 2023.
- [7] **Stylianios Loukas Vasileiou** and William Yeoh. “PLEASE: Generating Personalized Explanations in Human-Aware Planning”. In: *European Conference on Artificial Intelligence (ECAI)*. 2023.
- [8] Ashwin Kumar, **Stylianios Loukas Vasileiou**, Melanie Bancilhon, Alvitta Ottley, and William Yeoh. “VizXP: A Visualization Framework for Conveying Explanations to Users in Model Reconciliation Problems”. In: *International Conference on Automated Planning and Scheduling (ICAPS)*. 2022.
- [9] **Stylianios Loukas Vasileiou**, Alessandro Previti, and William Yeoh. “On Exploiting Hitting Sets For Model Reconciliation”. In: *AAAI Conference on Artificial Intelligence*. 2021.
- [10] Son Tran Cao, Van Nguyen, **Stylianios Loukas Vasileiou**, and William Yeoh. “Model Reconciliation in Logic Programs”. In: *European Conference on Logics in AI (JELIA)*. 2021.
- [11] Van Nguyen, **Stylianios Loukas Vasileiou**, Son Tran Cao, and William Yeoh. “Conditional Updates of Answer Set Programming and Its Application in Explainable Planning (Extended Abstract)”. In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*. 2020.
- [12] Van Nguyen, **Stylianios Loukas Vasileiou**, Son Tran Cao, and William Yeoh. “Explainable Planning Using Answer Set Programming”. In: *International Conference on Principles of Knowledge Representation and Reasoning (KR)*. 2020.
- [13] Son Tran Cao, Van Nguyen, **Stylianios Loukas Vasileiou**, and William Yeoh. “Conditional Updates of Logic Programs and its Applications (Poster Presentation)”. In: *International Conference on Principles of Knowledge Representation and Reasoning (KR)*. 2020.

Workshop & Symposium Papers

- [1] Silvia Tulli, **Stylianios Loukas Vasileiou**, Mohamed Chetouani, and Sarath Sreedharan. “Inferring Implicit Goals Across Differing Task Models”. In: *International Joint Conference on Artificial Intelligence (IJCAI) Workshop on User-Aligned Assessment of Adaptive AI Systems*. 2025.
- [2] Yinxu Tang, **Stylianios Loukas Vasileiou**, and William Yeoh. “Approximating Human Mental Models During Argumentation-based Dialogues”. In: *ICAPS Workshop on Human-aware and Explainable Planning*. 2024.
- [3] Silvia Tulli, **Stylianios Loukas Vasileiou**, and Sarath Sreedharan. “Human-Modeling in Sequential Decision-Making: An Analysis through the Lens of Human-Aware AI”. In: *ICAPS Workshop on Human-aware and Explainable Planning*. 2024.
- [4] Andrew Estornell, **Stylianios Loukas Vasileiou**, William Yeoh, and Daniel Borrajo. “Predicting Customer Goals in Financial Institution Services: A Data-Driven LSTM Approach”. In: *International Conference on Automated Planning and Scheduling (ICAPS) Workshop on Financial Planning*. 2023.
- [5] **Stylianios Loukas Vasileiou**. “Towards a Logical Account for Human-Aware Explanation Generation in Model Reconciliation Problems”. In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS) Doctoral Consortium*. 2023.
- [6] **Stylianios Loukas Vasileiou**, Ashwin Kumar, William Yeoh, Son Tran Cao, and Francesca Toni. “DR-HAI: Argumentation-based Dialectical Reconciliation in Human-AI Interactions”. In: *International Joint Conference on Artificial Intelligence (IJCAI) Workshop on Explainable AI*. 2023.
- [7] **Stylianios Loukas Vasileiou**, Ashwin Kumar, and William Yeoh. “On Generating Personalized Explanations via Knowledge Forgetting”. In: *International Joint Conference on Artificial Intelligence (IJCAI) Workshop on XAI*. 2022.

- [8] **Stylianou Loukas Vasileiou**, William Yeoh, Son Tran Cao, and Alessandro Previti. “Explanations as Model Reconciliation via Probabilistic Logical Reasoning”. In: *International Conference on Principles of Knowledge Representation and Reasoning (KR) Workshop on Explainable Logic*. 2021.
- [9] **Stylianou Loukas Vasileiou**, William Yeoh, and Tran Cao Son. “On the Relationship Between KR Approaches for Explainable Planning”. In: *International Conference on Automated Planning and Scheduling (ICAPS) Workshop on XAIP*. 2020.
- [10] **Stylianou Loukas Vasileiou**, Son Tran Cao, and William Yeoh. “A Preliminary Logic-based Approach for Explanation Generation”. In: *International Conference on Automated Planning and Scheduling (ICAPS) Workshop on Explainable AI Planning*. 2019.

ADVISING

M.S. Students

- Yuxiao Wang SP’23 – FL’23
Project title: Generating Natural Language Explanations for Explainable Planning
University: Washington University in St. Louis
- Ruoyao Yang SP’20 – FL’20
Project title: Visualizations in Explainable Planning
University: Washington University in St. Louis

B.S. Students

- Benjamin Watkins, SP’23 - SU’24
Project title: Proactive Rescheduling with Fairness Guarantees
University: Washington University in St. Louis
- Bob Xiao FL’23 – SP’23
Project title: Goal Prediction in Financial Settings
University: Washington University in St. Louis
- Tanish Agarwal, SU’22
Project title: Fairness-aware Scheduling
University: IIT-Delhi (REU)
- Borong Xu FL’22 – SP’23
Project title: Explainable Agent Scheduling Problems
University: Washington University in St. Louis

SERVICE

Workshop Organizing Committee

- International Joint Conference on Artificial Intelligence (IJCAI) Workshop on Explainable AI (XAI) 2025
- International Conference on Automated Planning and Scheduling (ICAPS) Workshop on Human-Aware and Explainable Planning (HAXP) 2021 – 2025

Program Committee/Reviewer

- Association for the Advancement of Artificial Intelligence (AAAI) 2024 – 2026
- European Conference on Artificial Intelligence (ECAI) 2023, 2025
- International Joint Conference on Artificial Intelligence (IJCAI) 2023 – 2025
- International Conference on Autonomous Agents and Multiagent Systems (AAMAS) 2020, 2023 – 2025
- International Conference on Automated Planning and Scheduling (ICAPS) 2022, 2024 – 2025
- Artificial Intelligence Journal (AIJ) 2023 – 2025
- Neural Computing and Applications (NCAA) 2025
- IJCAI Workshop on Explainable AI (XAI) 2023 – 2024

- ECAI Workshop on Trustworthy Sequential Decision-making and Pptimization (TSDO) 2024
- ICAPS Workshop on Explainable AI Planning (XAIP) 2020

EVENTS & ACTIVITIES

- Dagstuhl Seminar on Explainable AI for Sequential Decision-Making SEPT 2024
- We Belong CS@WashU: Talk on *Introduction to AI* JAN 2020, SEPT 2021
- We Belong CS@WashU: Member of the organization team JAN 2020
- Parkway North High School, Saint Louis, MO: Workshop on *Introduction to AI* NOV 2019

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