

Fanny Jourdan

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Summary

I'm PhD Candidate in computer science and mathematics at IRIT (Institut de Recherche en Informatique de Toulouse) and ANITI (Artificial and Natural Intelligence Toulouse Institute). I am interested in Fairness and Explainability of Natural Language Processing algorithms. I am looking for a research position (academic or private sector) or a post-doc in these topics for September 2024.

EDUCATION

PhD on Computer Science at Paul Sabatier University Fairness and Explainability on Natural Language Processing Supervisors: Nicholas Asher and Laurent Risser	2021 - 2024 Toulouse, France
Master's Degree on Economics at Paris Dauphine University Digital economics, management, innovation, regulation theory	2020 - 2021 Paris, France
Master's Degree on Mathematics at École polytechnique Data Sciences, Statistical theory, Natural Language Processing, Optimisation, Causal Inference	2018 - 2020 Paris, France
Bachelor's Degree on Mathematics at Paris-Sud University Fundamental mathematics: Algebra, Topology, Calculus Holomorphic function, Probability	2015 - 2018 Paris, France

WORK EXPERIENCE

Research intern at Criteo AI Lab Study of the causal effect of displays (advertising banners sent by Criteo) on the sales of associated products.

April 2019 - August 2019

May 2020 - September 2020

Paris, France

Paris, France

Data scientist intern at EDF R&D Analysis and disaggregation of individual electrical consumption time series.

TEACHING

Teaching assistant at Paul Sabatier University	2021 - 2023
Mathematics for Undergraduate students on Biology Bachelor	Toulouse, France
Teaching assistant at Paul Sabatier University	2021 - 2022
Logic for Undergraduate students on Computer Science Bachelor	Toulouse, France
Oral examiner at Parc de Vilgenis High School	2018 - 2020
"Colles" on mathematics for Undergraduate students in "Higher	Massy, France
school preparatory classes"	

Publications

- 1. Fanny Jourdan, Agustin Picard, Thomas Fel, Laurent Risser, Jean-Michel Loubes, Nicholas Asher, "COCKATIEL: COntinuous Concept ranked ATtribution with Interpretable ELements for explaining neural net classifiers on NLP tasks" to appear in Proceedings of the Findings of the Association for Computational Linguistics (ACL 2023), Toronto, Canada, 2023, ACL.
- 2. Fanny Jourdan, Laurent Risser, Jean-Michel Loubes, Nicholas Asher, "Are fairness metric scores enough to assess discrimination biases in machine learning?" to appear in Proceedings of Third Workshop on Trustworthy Natural Language Processing (TrustNLP ACL2023), Toronto, Canada, 2023, ACL.
- 3. Fanny Jourdan, Titon Tshiongo Kaninku, Nicholas Asher, Jean-Michel Loubes, Laurent Risser,

"How Optimal Transport Can Tackle Gender Biases in Multi-Class Neura Job Recommendations" in <i>Algorithms</i> , 16.3, p. 174	l Network Classifiers for	
Talks and posters presentations		
TrustNLP Workshop ACL - Oral	July 14, 2023	
Are fairness metric scores enough to assess discrimination biases in machine learning?	Toronto, Canada	
TrustNLP Workshop ACL - Poster session (2 posters)	July 14, 2023	
- Are fairness metric scores enough to assess discrimination biases in machine learning?	Toronto, Canada	
- COCKATIEL: COntinuous Concept ranKed ATtribution with Interpretable ELements for explaining neural net classifiers on NLP tasks		
ACL - Findings spotlight	July 9, 2023	
COCKATIEL: COntinuous Concept ranKed ATtribution with Interpretable ELements for explaining neural net classifiers on NLP tasks	Toronto, Canada	
European Workshop on Algorithmic Fairness - 2 Spotlights	June 7-9, 2023	
- Are fairness metric scores enough to assess discrimination biases in machine learning?	Zurich, Switzerland	
- How Optimal Transport Can Tackle Gender Biases in Multi-Class Neural Network Classifiers for Job Recommendation		
MobiliT.AI - Poster session	May 30-31, 2023	
COCKATIEL: COntinuous Concept ranKed ATtribution with Interpretable ELements for explaining neural net classifiers on NLP tasks	Toulouse, France	

3IA round table - Speaker March 22, 2022 Reducing bias and inequalities: can AI have a role?

3IA Doctoral workshop - Talk November 22-23, 2021 Bias in Natural Language Processing Toulouse, France

Online

"Journée du GDR TAL 2021" - Talk October 5, 2021 Bias in Natural Language Processing Toulouse, France

Extracurricular experiences

PhD student representative at ANITI Diversity Commission 2021 - Today The commission initiates and launches actions to combat prejudice about Toulouse, France AI and to fight against gender stereotypes. Cofounder and treasurer at AlumnIA association 2020 - Today Creation and management of the budget of the association of alumni Paris, France of the Data Science master at École polytechnique Paris. 2018 - 2019

Volunteer at Femmes & Mathématiques association Organization of "Filles & maths: une équation lumineuse" events to help Paris, France high school girls discover the trades related to mathematics and not undermine their ambitions.

LANGUAGES

French - Native English - Professional working Spanish - Elementary

Last updated: June 27, 2023