

Hanna Abi Akl

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SUMMARY

I am a PhD student in logic, language and computation at INRIA. My research interests include neuro-symbolic artificial intelligence, knowledge representation, knowledge graphs, ontologies, natural language processing and the semantic web. I am currently working on neuro-symbolic and knowledge-based approaches for reasoning abilities in Large Language Models. I also teach at Data ScienceTech Institute and Sciences Po.

PROFESSIONAL EXPERIENCE

- **SciencesPo Paris School of International Affairs**  08/2024 - Current
Adjunct Instructor Paris, France
 - Teaching activities: Programming, Databases, and Machine Learning Foundations for Decision-Makers, Cloud Computing
- **INRIA**  02/2023 - Current
External Scientific Collaborator Nice, France
 - Member of the WIMMICS team
 - PhD thesis supervision on triplet relation extraction using NLP and Semantic Web methodologies
 - Testing and validation of the KGStat tutorial project based on Machine Learning techniques using Semantic Web data
- **Data ScienceTech Institute School of Engineering**  02/2023 - Current
Vice-Dean and Chief Academic Officer Paris, France
 - Teaching activities: Clean IT, Software Engineering, Machine Learning Labs, Artificial Neural Networks, Deep Learning, Amazon Web Services, Data Wrangling with SQL
 - Preparation of Faculty Seminars and scientific programme reviews
 - Improvement of programme structure and evaluation (Bachelors and Masters level)
 - Responsible for faculty recruitment interviews
- **Yseop**  04/2019 - 02/2023
Data Scientist and Machine Learning Engineer Paris, France
 - Identification and prototyping of artificial intelligence use cases using machine and deep learning techniques
 - Design and integration of artificial intelligence tools in existing product from text corpora, APIs, business ontologies and knowledge graphs
- **Data ScienceTech Institute School of Engineering**  09/2021 - 02/2023
Course Instructor Paris, France
 - Teaching activities: Clean IT, Software Engineering, Machine Learning Labs
- **Data ScienceTech Institute School of Engineering**  01/2019 - 04/2019
Private Tutor Paris, France
 - Preparing students for the "AWS Certified Solutions Architect - Associate" certification exam
- **Data Consult**  06/2015 - 08/2018
Data Integration Engineer Beirut, Lebanon
 - Configuration, maintenance and customization of cloud applications
 - High-level analysis and smart data reporting through API and chatbot software integration
 - Implementation of first Smart City solution in Lebanon
 - Presentation of data augmentation platform at the Mobile World Congress (MWC)
- **Touch**  07/2014 - 08/2014
Site Implementation and Maintenance (SI&M) Engineering Intern Beirut, Lebanon
 - Theoretical research on the development and advancement of 4G technology
- **American University of Beirut**  06/2012 - 12/2013
Research Assistant Beirut, Lebanon
 - Benchmarking and optimization of Alaoui filter and integrator model parameters in Matlab
- **American University of Beirut**  09/2011 - 09/2015
Private Tutor Beirut, Lebanon
 - Teaching middle school and high school subjects

EDUCATION

- **INRIA - Université Côte d'Azur** 01/2025 - Current
PhD, Computer Science Nice, France
 - Topic: Neuro-symbolic and knowledge-based approaches for reasoning in Large Language Models
 - Supervision: Fabien Gandon, Catherine Faron, Pierre Monnin
 - Keywords: Logical Reasoning, Neuro-symbolic Artificial Intelligence, Knowledge Graphs, Ontologies, Natural Language Processing, Semantic Web
 - Summer Schools: ESSAI 2025, Reasoning Web 2025
- **Quantic School of Business and Technology** 12/2024 - 06/2026
Executive MBA Washington, DC, United States of America
 - GPA: 4.0/4.0
 - Awarded the France Leadership scholarship
- **Université Côte d'Azur** 12/2023 - 07/2024
Master, Computer Science Nice, France
 - GPA: 4.0/4.0
 - Awarded full completion by the Validation d'Acquis par Expérience (VAE)
- **Data ScienceTech Institute School of Engineering** 10/2018 - 09/2019
M.Sc., Data Science and Artificial Intelligence Paris, France
 - GPA: 4.0/4.0
 - Graduated Summa Cum Laude
 - Awarded Second prize at HackBordeaux 2019 Capgemini challenge for the FuelMi application
- **American University of Beirut** 09/2011 - 05/2015
B.E., Computer and Communications Engineering Beirut, Lebanon
 - Dean's Honor List: Spring Semester 2015
 - Awarded Second prize in the National Instruments elevator design challenge
 - Recipient of the Philippe Jabre Association scholarship for excellence
- **Collège Notre Dame de Jamhour** 09/1998 - 06/2011
High School Diploma, General Sciences Beirut, Lebanon
 - Ranked in top 10% of cohort (300 students)
 - High Distinction in the French Baccalaureate
 - High Distinction in the Lebanese Baccalaureate
 - Recipient of the Carlos Ghosn scholarship for excellence

PATENTS AND PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS











- [S.1] **Hanna Abi Akl, et al (2025). Investigating Language Model Capabilities to Represent and Process Formal Knowledge: A Preliminary Study to Assist Ontology Engineering.** Manuscript submitted for publication in *Declarative AI 2025 Doctoral Consortium*.
- [C.17] Célian Ringwald, Fabien Gandon, Catherine Faron, Franck Michel, **Hanna Abi Akl (2025). Kastor: Fine-tuned Small Language Models for Shape-based Active Relation Extraction.** In *European Semantic Web Conference*, pp. 94-115. Springer, Cham. DOI: 10.1007/978-3-031-94575-5_6.
- [J.4] Célian Ringwald, Fabien Gandon, Catherine Faron, Franck Michel, **Hanna Abi Akl (2025). Extensive Benchmark of Small Language Models for Datatype Properties Extraction and RDF Knowledge Graph Generation.** Manuscript submitted for publication in *Semantic Web*.
- [P.3] **Hanna Abi Akl, Hugues de Mazancourt, Dominique Mariko (2024). Ontology mapping and adaptation systems and methods.** U.S. Patent Office, Patent No. 12,106,049. Publication Date: 01 October 2024.
- [C.16] **Hanna Abi Akl, et al (2024). Knowledge Graphs can play together: Addressing knowledge graph alignment from ontologies in the biomedical domain.** In *Proceedings of the 16th International Conference on Knowledge Discovery and Information Retrieval (KDIR 2024)*, pp. 416-423. DOI: 10.5220/0013015800003838.
- [C.15] **Hanna Abi Akl (2024). Project SHADOW: Symbolic Higher-order Associative Deductive reasoning On Wikidata using LM probing.** In *Proceedings of the 10th International Conference on Natural Language Computing (NATL 2024)*.
- [C.14] **Hanna Abi Akl (2024). DSTI at LLMs4OL 2024 Task A: Intrinsic versus extrinsic knowledge for type classification.** In *Open Conference Proceedings*, pp. 93-101. DOI: <https://doi.org/10.52825/ocp.v4i.2492>.
- [C.13] Célian Ringwald, Fabien Gandon, Catherine Faron, Franck Michel, **Hanna Abi Akl (2024). Learning Pattern-Based Extractors from Natural Language and Knowledge Graphs Applying Large Language Models to Wikipedia & the Linked Open Data.** In *Proceedings of the AAAI Conference on Artificial Intelligence*, pp. 23411-23412. DOI: <https://doi.org/10.1609/aaai.v38i21.30406>.



- [C.12] Célian Ringwald, Fabien Gandon, Catherine Faron, Franck Michel, **Hanna Abi Akl** (2024). **12 shades of RDF: Impact of Syntaxes on Data Extraction with Language Models**. In *European Semantic Web Conference*, pp. 81-91. Springer, Cham. DOI: https://doi.org/10.1007/978-3-031-78952-6_8.
- [C.11] **Hanna Abi Akl** (2024). **NeSy is alive and well: A LLM-driven symbolic approach for better code comment data generation and classification**. In *Joint Proceedings of the ESWC 2024 Workshops and Tutorials co-located with 21th European Semantic Web Conference (ESWC 2024)*.
- [C.10] Célian Ringwald, Fabien Gandon, Catherine Faron, Franck Michel, **Hanna Abi Akl** (2024). **Well-written knowledge graphs: most effective RDF syntaxes for triple linearization in end-to-end extraction of relations from texts**. In *Proceedings of the AAAI Conference on Artificial Intelligence*, pp. 23631-23632. DOI: <https://doi.org/10.1609/aaai.v38i21.30502>.
- [C.9] **Hanna Abi Akl** (2023). **PSYCHIC: A Neuro-Symbolic Framework for Knowledge Graph Question-Answering Grounding**. In *Joint Proceedings of Scholarly QALD 2023 and SemREC 2023 co-located with 22nd International Semantic Web Conference (ISWC 2023)*.
- [C.8] **Hanna Abi Akl** (2023). **A ML-LLM pairing for better code comment classification**. In *FIRE (Forum for Information Retrieval Evaluation)*.
- [C.7] Célian Ringwald, Fabien Gandon, Catherine Faron, Franck Michel, **Hanna Abi Akl** (2023). **Learning RDF pattern extractors from natural language and knowledge graphs-application to Wikipedia and the LOD**. In *Proceedings of the AAAI Conference on Artificial Intelligence*. DOI: <https://doi.org/10.1609/aaai.v38i21.30406>.
- [P.2] **Hanna Abi Akl**, Hugues de Mazancourt, Dominique Mariko, Valentin Pierart (2023). **Systems and methods for measuring automatability of report generation using a natural language generation system**. U.S. Patent Office, Patent No. 11,734,517. Publication Date: 22 August 2023.
- [C.6] **Hanna Abi Akl** (2023). **The Path to Autonomous Learners**. In *Science and Information Conference*, pp. 808-830. DOI: https://doi.org/10.1007/978-3-031-37717-4_52.
- [P.1] Dominique Mariko, **Hanna Abi Akl**, Hugues de Mazancourt (2022). **Techniques for generating natural language text customized to linguistic preferences of a user**. U.S. Patent Office, Patent No. 11,501,088. Publication Date: 15 November 2022.
- [J.3] Rami Bou Khalil, Ramez Dagher, Myriam Zarzour, Ghassan Sleilaty, **Hanna Abi Akl**, et al (2022). **The impact of lockdown and other stressors during the COVID-19 pandemic on depression and anxiety in a Lebanese opportunistic sample: an online cross-sectional survey**. In *Current Psychology*, pp. 1-11. DOI: <https://doi.org/10.1007/s12144-021-02644-0>.
- [C.5] **Hanna Abi Akl**, et al (2021). **Yseop at FinSim-3 Shared Task 2021: Specializing Financial Domain Learning with Phrase Representations**. In *Proceedings of the Third Workshop on Financial Technology and Natural Language Processing*, pp. 52-57.
- [C.4] Anubhav Gupta, **Hanna Abi Akl**, et al (2021). **Not all titles are created equal: Financial document structure extraction shared task**. In *Proceedings of the 3rd Financial Narrative Processing Workshop*, pp. 86-88.
- [C.3] **Hanna Abi Akl**, et al (2020). **Yseop at SemEval-2020 Task 5: Cascaded BERT Language Model for Counterfactual Statement Analysis**. In *Proceedings of the Fourteenth Workshop on Semantic Evaluation*, pp. 468-478.
- [J.2] **Hanna Abi Akl**, et al (2020). **SemEval-2020 Task 5: Detecting Counterfactuals by Disambiguation**. In *arXiv preprint arXiv:2005.08519*.
- [J.1] Dominique Mariko, Estelle Labidurie, Yagmur Ozturk, **Hanna Abi Akl**, et al (2020). **Data Processing and Annotation Schemes for FinCausal Shared Task**. In *arXiv preprint arXiv:2012.02498*.
- [C.2] Dominique Mariko, **Hanna Abi Akl**, et al (2020). **Financial Document Causality Detection Shared Task (FinCausal 2020)**. In *Proceedings of the 1st Joint Workshop on Financial Narrative Processing and MultiLing Financial Summarisation*, pp. 23-32.
- [C.1] **Hanna Abi Akl**, Anubhav Gupta, Dominique Mariko (2019). **Fintoc-2019 shared task: Finding title in text blocks**. In *Proceedings of the Second Financial Narrative Processing Workshop (FNP 2019)*, pp. 58-62.

PROJECTS

D=DATA, P=PROJECT, S=SOFTWARE

- [S.9] **SHADOW: LM-probing model for triple completion on Wikidata** 2024
Tools: Python, SPARQL, Wikidata, Knowledge Graphs, Deep Learning, Hugging Face [🔗]
 - Fine-tuned model on data
 - Publicly released on Hugging Face
- [S.8] **FLAN-T5 small-WordNet: WordNet term classification with Wikidata semantic information** 2024
Tools: Python, SPARQL, Wikidata, Knowledge Graphs, Deep Learning, Hugging Face [🔗]
 - Extracted Wikidata semantic information
 - Created semantic embedding vectors

- Fine-tuned model on data
- Publicly released on Hugging Face
- **[S.7] FLAN-T5 small-GeoNames: GeoNames term classification with Wikidata semantic information** 2024
Tools: Python, SPARQL, Wikidata, Knowledge Graphs, Deep Learning, Hugging Face 
- Extracted Wikidata semantic information
- Created semantic embedding vectors
- Fine-tuned model on data
- Publicly released on Hugging Face
- **[D.5] WordNet Semantic Primes: Enriching WordNet data with Wikidata** 2024
Tools: Python, SPARQL, MongoDB, Wikidata, Hugging Face 
- Created scripts to query Wikidata Knowledge Graph information
- Vectorized Knowledge Graph information
- Configured MongoDB to store and index vectors
- Publicly released on Hugging Face
- **[D.4] GeoNames Semantic Primes: Enriching GeoNames data with Wikidata** 2024
Tools: Python, SPARQL, MongoDB, Wikidata, Hugging Face 
- Created scripts to query Wikidata Knowledge Graph information
- Vectorized Knowledge Graph information
- Configured MongoDB to store and index vectors
- Publicly released on Hugging Face
- **[P.5] KGstat: Knowledge Graph querying and machine learning modeling on data** 2023
Tools: Python, R, SPARQL, Knowledge Graphs, Machine Learning 
- Applied statistical analysis for classification and regression cases on Knowledge Graph data
- Proposed machine learning models for improving classification and regression performance
- Evaluated used metrics for classification and regression
- **[S.6] PSYCHIC: Question-answering neuro-symbolic model on knowledge graphs with SPARQL** 2023
Tools: Python, SPARQL, Knowledge Graphs, Deep Learning, Hugging Face 
- Fine-tuned model on data
- Publicly released on Hugging Face
- **[S.5] Text Smoothing: Generative model for financial text rewriting** 2022
Tools: Python, Deep Learning, Hugging Face 
- Created scripts for scraping and cleaning data pipeline
- Tested model zero-shot configurations
- Publicly released on Hugging Face
- **[S.4] Complete FNP T5 Data2Text: Complete T5-base data to text model specialized for finance NLG** 2022
Tools: Python, Deep Learning, Hugging Face 
- Created scripts for scraping and cleaning data pipeline
- Re-trained model on data
- Publicly released on Hugging Face
- **[S.3] Simple FNP T5 Data2Text: Simple T5-base data to text model specialized for finance NLG** 2022
Tools: Python, Deep Learning, Hugging Face 
- Created scripts for scraping and cleaning data pipeline
- Fine-tuned model on data
- Publicly released on Hugging Face
- **[D.3] FNP 2022 FinCausal: Data set for the FinCausal 2022 shared task** 2022
Tools: Python 
- Performed data curation
- Participated in inter-annotator agreement sessions
- Created baseline models and scoring scripts
- **[S.2] FinISH: Financial term classification model for domain ontology classes** 2021
Tools: Python, Ontologies, Deep Learning, Hugging Face 
- Created scripts for scraping and cleaning FIBO ontology
- Augmented financial ontology terms with definitions
- Fine-tuned model on data

- Publicly released on Hugging Face
- **[S.1] Financial Relation Extraction: Classification model for type of relations in financial sentences** 2021
Tools: Python, Deep Learning, Hugging Face 
 - Created scripts for scraping and cleaning financial data pipeline
 - Extracted and normalized financial relations
 - Fine-tuned model on data
 - Publicly released on Hugging Face
- **[D.2] FNP 2021 FinCausal: Data set for the FinCausal 2021 shared task** 2021
Tools: Python 
 - Performed data curation
 - Participated in inter-annotator agreement sessions
 - Created baseline models and scoring scripts
- **[D.1] FNP 2020 FinCausal: Data set for the FinCausal 2020 shared task** 2020
Tools: Python 
 - Performed data curation
 - Participated in inter-annotator agreement sessions
 - Created baseline models and scoring scripts
- **[P.4] FuelMi: The pet that takes care of you** 2019
Tools: Python 
 - Designed application concept and intent
 - Implemented Python back-end functionalities for health and activity management
 - Pitched in front of live jury
- **[P.3] Lebanon Smart City Experience: First smart city in Lebanon at BeitMisk** 2017
Tools: Air Quality Sensors, Node-Red, PHP, MySQL, HTML5, MQTT Protocol, Server-Side JavaScript 
 - Maintained and queried sensor log data in MySQL database
 - Created PHP query scripts to provide data insights for monitoring dashboard
 - Updated HTML5 dashboard with insights on consumption tracking
 - Developed custom Facebook chatbot with Node-Red and Watson NLP toolkit
- **[P.2] Ticketing System: Customizing Service Delivery** 2016
Tools: Oracle RightNow Service Cloud, PHP, HTML5, CSS, JavaScript, ROQL, Google Scripts, Google Sheets 
 - Implemented and configured ticketing system
 - Managed user access and administration
 - Created custom workflows for internal use
 - Created and enabled custom views and reports
 - Managed and customized web portal with HTML5, CSS and JavaScript
 - Created custom project management time sheet with Google Sheets back-end and Google Scripts
 - Maintained PHP scripts for updated ROQL real-time queries and ticket views
- **[P.1] Sales CRM System: Improving Customer Relationship Management Experience** 2016
Tools: Oracle Sales Cloud, Groovy scripting, Microsoft Dynamics 
 - Performed migration from Microsoft Dynamics to Oracle Sales Cloud
 - Created custom views for users
 - Managed user access and administration
 - Setup Single sign-on (SSO) with LDAP between Microsoft Active Directory and Oracle
 - Created custom workflows and scripts for internal behavior

SUPERVISION

M=M.Sc., P=PhD

- **[M.3] Claire Davat, Albin Brogialdi, Marius Akre, Florian Irrien, Luc Sagnes** 11/2024 - 04/2025
Data ScienceTech Institute School of Engineering [🌐]
 - Supervised DIRISI Hackathon project: "L'Intelligence Artificielle au cœur des réseaux"
 - Ranked Second in the challenge
- **[M.2] Jannic Cutura** 06/2023 - 11/2023
Data ScienceTech Institute School of Engineering [🌐]
 - Supervised "Deep Learning" research project: Breaking the U: Asymmetric U-Net for Object Recognition in Muon Tomography
 - Ranked Fourth in the IEEE BigData 2023 Cup: Object Recognition with Muon Tomography using Cosmic Rays challenge
 - Paper publication in IEEE Conference Proceedings
- **[P.1] Célian Ringwald** 12/2022 - Current
Université Côte d'Azur, Inria, CNRS, I3S [🌐]
 - Supervised PhD thesis "Learning RDF pattern extractors for a language from dual Wikipedia/LOD databases"
- **[M.1] Jannic Cutura** 12/2022 - 04/2023
Data ScienceTech Institute School of Engineering [🌐]
 - Supervised "Python Machine Learning Labs" research project: Web Intelligence - Deduplication challenge
 - Ranked First (reproducibility) and Second (accuracy) in the EuropeanStatisticsAwards challenge
 - Prize money: 14,000 euros

SKILLS

- **Programming Languages:** Python, C, C++, Java, JavaScript, PHP, HTML5, CSS3
- **Web Technologies:** RDF, RDFS, OWL, SPARQL
- **Database Systems:** Microsoft SQL Server, MySQL, PostgreSQL, MongoDB, Neo4j
- **Data Science & Machine Learning:** Classification, Regression, Clustering, Reinforcement Learning
- **Cloud Technologies:** Amazon Web Services
- **DevOps & Version Control:** Git, SVN
- **Specialized Area:** Natural Language Processing, Knowledge Graphs, Computational Linguistics
- **Mathematical & Statistical Tools:** Matlab, Latex
- **Other Tools & Technologies:** Docker, Windows, Linux (bash scripting)
- **Project Management:** Agile methods (Scrum), Test-Driven Development

HONORS AND AWARDS

- **Second Place in the LLMs4OL challenge** 2024
International Semantic Web Conference (ISWC) [🌐]
 - Second in F1 score (97.16%) in SubTask A.1 (FS) - Term Typing - Wordnet
- **Third Place in the Scholarly-QALD challenge** 2023
International Semantic Web Conference (ISWC) [🌐]
 - Third in F1 score (71.00%) in DBLP-QuAD Entity Linking
- **Second Place in the IRSE shared task** 2023
FIRE: Forum for Information Retrieval Evaluation [🌐]
 - Second in F1 score increase (+1.5%)
- **Company Core Values Award Q3 Trust** 2022
Yseop [🌐]
 - Chosen by colleagues (80 employees)
- **Second place in the FinSim-3 shared task** 2021
FinNLP [🌐]
 - Second in Mean Rank (1.141) and Accuracy (91.70%) scores
- **Company Core Values Award Q1 Innovation** 2021
Yseop [🌐]
 - Chosen by colleagues (80 employees)
- **Second Place in the HackBordeaux Capgemini challenge** 2019
Enseirb - Matmeca [🌐]
 - Second for the FuelMi health application

- **Second Place in the National Instruments Elevator Competition** 2011
American University of Beirut [🌐]
◦ Second in the Elevator Competition design challenge
- **Finalist in the International College School Poetry Competition** 2010
International College [🌐]
◦ Finalist among 300 national participants
- **Recipient of the "Philippe Jabre Foundation Scholarship for Excelling Students"** 2011-2015
American University of Beirut [🌐]
◦ Recipient for academic excellence
- **Recipient of the "Carlos Ghosn Foundation Scholarship for Excelling Students"** 1997-2011
Collège Notre Dame de Jamhour [🌐]
◦ Recipient for academic excellence

SCIENTIFIC ACTIVITIES


C=CONFERENCE, J=JOURNAL, S=SPECIAL SESSION, T=TRACK, W=WORKSHOP

- **[T.2] Industry Track at EMNLP** 2025
Reviewer [🌐]
- **[J.2] Engineering Applications of Artificial Intelligence** 2025
Reviewer [🌐]
- **[W.13] Assessing World Models: Methods and Metrics for Evaluating Understanding workshop at ICML** 2025
Reviewer [🌐]
- **[W.12] 19th International workshop on Neural-Symbolic Learning and Reasoning (NeSy)** 2025
Reviewer [🌐]
- **[W.11] Representational Alignment workshop at ICLR** 2025
Reviewer [🌐]
- **[J.1] Neurosymbolic Artificial Intelligence** 2025
Reviewer [🌐]
- **[C.6] 3rd World Conference on eXplainable Artificial Intelligence (XAI)** 2025
Programme Committee [🌐]
- **[T.1] Industry Track at EMNLP** 2024
Reviewer [🌐]
- **[W.10] NeurIPS workshop on Behavioral Machine Learning** 2024
Reviewer [🌐]
- **[S.1] Harmonising Generative AI and Semantic Web Technologies at ISWC** 2024
Programme Committee [🌐]
- **[W.9] Large Language Models and Cognition workshop at ICML** 2024
Reviewer [🌐]
- **[C.5] 4th International Conference on NLP & Data Mining (NLDM)** 2024
Programme Committee [🌐]
- **[C.4] 10th International Conference on Computer Science and Information Technology (CSTY)** 2024
Programme Committee [🌐]
- **[C.3] 2nd World Conference on eXplainable Artificial Intelligence (XAI)** 2024
Programme Committee [🌐]
- **[C.2] 5th International conference on Advanced Natural Language Processing (AdNLP)** 2024
Programme Committee [🌐]
- **[W.8] 18th International workshop on Neural-Symbolic Learning and Reasoning (NeSy)** 2024
Programme Committee [🌐]
- **[C.1] 2nd International Conference on NLP & AI (NLP AI)** 2024
Programme Committee [🌐]
- **[W.7] Neuro-Symbolic Learning and Reasoning in the Era of Large Language Models workshop at AAAI** 2024
Reviewer [🌐]
- **[W.6] 17th International workshop on Neural-Symbolic Learning and Reasoning (NeSy)** 2023
Programme Committee [🌐]
- **[W.5] Neurosymbolic Generative Models (NeSy-GeMs) workshop at ICLR** 2023
Programme Committee [🌐]
- **[W.4] 5th Financial Narrative Processing (FNP) workshop** 2023
Programme Committee [🌐]
- **[W.3] FinCausal shared task at The 4th Financial Narrative Processing (FNP) workshop** 2022
Organizer [🌐]
- **[W.2] FinCausal shared task at The 3rd Financial Narrative Processing (FNP) workshop** 2021
Organizer [🌐]
- **[W.1] FinCausal shared task at The 2nd Financial Narrative Processing (FNP) workshop** 2020
Organizer [🌐]

- **[M.11] Data Management**
Data ScienceTech Institute School of Engineering


 - Language: English
 - Number of hours: 5
 - Description: Fundamentals of information systems analysis & design, functional dependency, relation model & relational algebra

2024-2025


- **[M.10] Operating Systems and Networking**
Data ScienceTech Institute School of Engineering


 - Language: English
 - Number of hours: 5
 - Description: Fundamentals of algorithmics and data structure design, network layers, routing & protocols, address spaces and associated service with the TCP/IP suite

2024-2025


- **[B.1] Relational Model and SQL**
Data ScienceTech Institute School of Engineering


 - Language: French
 - Number of hours: 25
 - Description: Introduction to the relational model, relational algebra operations, normal forms, database system design & SQL queries

2023-2025


- **[M.9] Deep Learning**
Data ScienceTech Institute School of Engineering


 - Language: English
 - Number of hours: 25
 - Description: PyTorch introduction, GPU training, neural network applications (computer vision, natural language processing, reinforcement learning)

2023-2025


- **[M.8] Artificial Neural Networks**
Data ScienceTech Institute School of Engineering


 - Language: English
 - Number of hours: 25
 - Description: Shallow & deep artificial neural networks, data representation & distributed representations, backpropagation & gradient descent, training & optimization, Python applications (Tensorflow & Keras)

2023-2025


- **[M.7] Amazon AWS**
Data ScienceTech Institute School of Engineering


 - Language: English
 - Number of hours: 50
 - Description: Introduction to cloud computing, cloud architecture, preparation for the "AWS Certified Solutions Architect – Associate" certification

2023-2025


- **[M.6] Data Wrangling with SQL**
Data ScienceTech Institute School of Engineering


 - Language: English
 - Number of hours: 25
 - Description: Review of relational models & database management systems, advanced SQL queries, dynamic SQL, stored procedures & triggers

2023-2025


- **[M.5] AI Awareness**
Data ScienceTech Institute School of Engineering


 - Language: English
 - Number of hours: 5
 - Description: Learning processes in living organisms and computers, AI ethics and challenges

2023-2025


- **[M.4] Software Engineering - Part 2**
Data ScienceTech Institute School of Engineering


 - Language: English
 - Number of hours: 25
 - Description: Python object-oriented programming, overview of C++

2021-2025


- **[M.3] Python Machine Learning Labs**
Data ScienceTech Institute School of Engineering

 - Language: English

2021-2025



- Number of hours: 25
- Description: Data structures, cleaning & preparation, Python libraries, feature engineering, machine learning algorithms, classification & regression
- **[M.2] Introduction to Data Structures & Software Engineering** 2021-2022
Data ScienceTech Institute School of Engineering [🌐]
 - Language: English
 - Number of hours: 10
 - Description: Introduction to data structures, benchmarks in Python & R, introduction to data simulation
- **[M.1] Clean IT** 2021-2025
Data ScienceTech Institute School of Engineering [🌐]
 - Language: English
 - Number of hours: 5
 - Description: Introduction to Google Colab, Python local setup, virtual environments, IDE configuration, R & RStudio, Git & GitHub

LITERARY PUBLICATIONS

A=ANTHOLOGY, B=BOOK, J=JOURNAL

- **[B.9] Game Theory** 09/2024
Amazon Kindle Direct Publishing [🌐]
- **[A.5] The Poetryhood** 2024
The Poetryhood [🌐]
- **[J.33] What's in a Name?** 2024
The Paris Institute For Critical Thinking [🌐]
- **[J.32] Winter 2023/24** 2023
The Paradox Literary Magazine [🌐]
- **[J.31] Issue 7** 2023
Indelible Lit [🌐]
- **[J.30] Volume 1 Issue 3** 2023
The Literatus [🌐]
- **[J.29] Issue 4** 2023
Tap into Poetry [🌐]
- **[B.8] Titans** 08/2023
Amazon Kindle Direct Publishing [🌐]
- **[J.28] The Three Pillars of AI: Symbols, Neurons, and Graphs** 2022
The AI Journal [🌐]
- **[J.27] The Three Pillars of AI: Symbols, Neurons, and Graphs** 2022
The AI Journal [🌐]
- **[A.4] Winter** 2022
Poets Choice [🌐]
- **[A.3] Impressions of Love** 2022
Pencil [🌐]
- **[B.7] Memory** 08/2022
Waterton Publishing Company [🌐]
- **[J.26] Featured Writer** 2022
Cajun Mutt Press [🌐]
- **[J.25] Spring 2022** 2022
New Note Poetry [🌐]
- **[J.24] Issue 4** 2022
The Pine Cone Review [🌐]
- **[J.23] Poem** 2022
Rusted Radishes [🌐]
- **[J.22] Issue VII** 2022
The Closed Eye Open [🌐]
- **[J.21] Issue 1** 2021
BEATIFIC [🌐]
- **[J.20] Poem** 2021
Jasad [🌐]
- **[J.19] Poem** 2021
Salad Days [🌐]
- **[J.18] Poem** 2021
Sledgehammer Lit [🌐]

• [B.6] Correspondence <i>Waterton Publishing Company</i>	08/2021 
• [B.5] Stems from the Edge of Silence <i>Waterton Publishing Company</i>	05/2020 
• [J.17] Clogs <i>Jellyfish Review</i>	2020 
• [J.16] Terminal One <i>Unite the World</i>	2020 
• [J.15] Issue 13 <i>Emerge Literary Journal</i>	2020 
• [J.14] Poems <i>Kreaxxxion Review</i>	2020 
• [J.13] Poem <i>Hamline Lit</i>	2020 
• [J.12] Poem <i>Former People</i>	2020 
• [J.11] Issue 1.7 <i>FEED Lit Magazine</i>	2020 
• [J.10] Poem <i>Open Arts Forum</i>	2020 
• [J.9] Volume 4 <i>Press Pause Press</i>	2020 
• [J.8] Poems <i>Spillwords Press</i>	2020 
• [J.7] Issue 34 <i>Poet Speak Magazine</i>	2020 
• [J.6] Poem <i>Poetry Potion</i>	2020 
• [J.5] Poem <i>Oddball Magazine</i>	2020 
• [J.4] Issue 137 <i>Red Fez</i>	2020 
• [J.3] Volume 3 Issue 2 <i>Ink In Thirds</i>	2019 
• [B.4] It's a Big Big World <i>Waterton Publishing Company</i>	07/2019 
• [A.2] And We Chose Everything <i>Turning Point Books</i>	2018 
• [B.3] Vitality <i>Waterton Publishing Company</i>	12/2018 
• [B.2] Diary In Poems <i>G&J Productions</i>	04/2018 
• [B.1] A Road Away From Home <i>G&J Productions</i>	01/2017 
• [A.1] One Hundred Voices: Volume One <i>Allegiant Publishing Group</i>	2016 
• [J.2] Paying Dues <i>Talking Soup</i>	2016 
• [J.1] Volume 2 Issue IX <i>The Rain, Party, & Disaster Society</i>	2015 

VOLUNTEER EXPERIENCE

• First Aid Training <i>Protection Civile Paris Seine</i> ◦ Passed the "PSC1 - Prévention et Secours Civiques de niveau 1" certification	07/2023 - 08/2023
• Mentor <i>JobIRL L'orientation In Real Life</i> ◦ Mentorship and job orientation for students looking to enter the data field	06/2022 - 02/2023
• Mentor <i>Social Builder</i> ◦ Mentor in the Women in Digital (WID) program ◦ Mentor in the Adabot program	09/2021 - 02/2023

<ul style="list-style-type: none"> • Corporate Social Responsibility Member <i>Yseop</i> <ul style="list-style-type: none"> ◦ Member of the CSR team ◦ Responsible for motivating local and global company initiatives ◦ Liaison with associations and organizations 	03/2021 - 02/2023
<ul style="list-style-type: none"> • Ambassador <i>Data ScienceTech Institute School of Engineering</i> <ul style="list-style-type: none"> ◦ Student mentorship and job orientation 	01/2020 - 02/2023
<ul style="list-style-type: none"> • Editor <i>Kiss My Poetry</i> <ul style="list-style-type: none"> ◦ Content selection and front-page editor 	07/2020 - 12/2020
<ul style="list-style-type: none"> • Volunteer <i>Greater Paris University Hospitals - AP-HP</i> <ul style="list-style-type: none"> ◦ Data Science volunteer for COVID-19 data analysis tasks 	03/2020 - 07/2020
<ul style="list-style-type: none"> • Ambassador <i>Beirut Poetics</i> <ul style="list-style-type: none"> ◦ Ambassador of the Beirut Poetics Lebanon branch journal ◦ Local poetry event organization and engagement of community members ◦ Promotion of cultural outreach of poetry 	07/2018 - 12/2022

PROFESSIONAL MEMBERSHIPS

• Global Network on Large-Scale Cross-domain and Multilingual Open Knowledge Graphs	2025 - Present
• Neuro-symbolic AI Interest Group at the Alan Turing Institute	2024 - Present
• Cognitive AI W3C Community Group	2024 - Present
• Artificial Intelligence Knowledge Representation W3C Community Group	2024 - Present
• Knowledge Graph Construction W3C Community Group	2024 - Present
• Knowledge Graphs Interest Group at the Alan Turing Institute	2024 - Present
• GDR RADIA	2024 - Present
• Association for Computational Linguistics	2022 - Present

CERTIFICATIONS

• IBM: Neuro-Symbolic AI Essentials	08/2022
• Neo4j: Certified Professional	07/2022
• Udacity: Machine Learning DevOps Engineer	05/2022
• Hasso Plattner Institute: Knowledge Graphs	03/2022
• Neo4j: Graph Data Science Certified	05/2022
• Massachusetts Institute of Technology: Minds and Machines	02/2021
• Udacity: Deep Reinforcement Learning	01/2021
• Leiden University: Miracles of Human Language: An Introduction to Linguistics	11/2020
• Ecole Polytechnique Federale de Lausanne: Computational Neuroscience	10/2020
• Saint Petersburg State University: Neurolinguistics	10/2020
• The University of Edinburgh: Philosophy and the Sciences	10/2020
• HSE University: Towards language universals through lexical semantics	10/2020
• CentraleSupélec: Analysez vos données textuelles	08/2019
• Université Grenoble Alpes: Introduction à la linguistique de corpus	07/2019
• AWS Academy: Academy Cloud Computing Architecture	12/2018
• Udacity: Artificial Intelligence	07/2017

ADDITIONAL INFORMATION

Languages: English (Native), French (Native), Arabic (Native)

Interests: Literature (Fiction, Philosophy, Classics, Computer Science), Musical Instruments (Electric Guitar), Sports (Football, Basketball, Running, Hiking, Tennis), French driving license

REFERENCES

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Relationship: Former Team Leader