# Hanna Abi Akl

Professor & Researcher in Artificial Intelligence

# **Personal Information**

Name Hanna Abi Akl

Email address hannaabiakl8@gmail.com

**Phone number** +33618086784

Address 6 Rue Edouard Henriot, 77420 Champs Sur Marne, France

**Gender** Male

Nationality Lebanese

Website hannaabiakl.github.io

LinkedIn linkedin.com/in/hannaabiakl

Github HannaAbiAkl

**ORCID ID** 0000-0001-9829-7401

# **Summary**

I am a scholar in logic, language, computation and neuro-symbolic artificial intelligence. My main areas of research are mapping language to symbolic structures, logic-based reasoning and graph-based knowledge representation methods in AI. I work as an AI & NLP Researcher and teach at Data ScienceTech Institute. I also enjoy writing poetry and novels.

### Education

Dec 2023 - Jul 2024 Master, Computer Science

Université Côte d'Azur, Nice, France

Oct 2018 - Sep 2019 M.Sc., Data Science and Artificial Intelligence

**Data ScienceTech Institute, Paris, France** 

Graduation Summa Cum Laude

Second prize at HackBordeaux 2019 Capgemini challenge (FuelMi)

### Sep 2011 - May 2015

### **B.E.**, Computer and Communications Engineering

### American University of Beirut, Beirut, Lebanon

Dean's Honor List for Spring Semester 2015

Second prize in National Instruments elevator design challenge

Recipient of the Philippe Jabre Association scholarship for excellence

### Sep 1998 - Jun 2011

### **High School Diploma (General Sciences)**

### Collège Notre Dame de Jamhour, Beirut, Lebanon

Graduation with high distinction in French and Lebanese Baccalaureates

Recipient of the Carlos Ghosn scholarship for excellence

## **Employment**

### Aug 2024 - Present

### **Adjunct Instructor**

### Sciences Po, Paris, France

Teaching activities in Master of Technology and Global Affairs programme: Fundamentals of Cloud Computing

#### Feb 2023 - Present

#### **External Scientific Collaborator**

### INRIA, Nice, Provence-Alpes-Côte d'Azur, 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

### Feb 2023 - Present

### **Chief Academic Officer and Research Professor**

### **Data ScienceTech Institute, 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

Technical liaison between students and Direction of Studies team

Improvement of programme structure and evaluation (Bachelors and Masters level)

Responsible for faculty recruitment interviews

### Apr 2019 - Feb 2013

### **Data Scientist & Machine Learning Engineer**

### Yseop, 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

Patent writing for intelligent tools responsible for financial reporting automation Co-chair in the COLING 2020, COLING 2021 and FNP 2022 workshops Second prize in the FinSim-3 2021 shared task

Winner of the Yseop Q1 2021 Innovation and Q3 2022 Trust Company Core

Values Awards

Sep 2021 - Feb 2023 Course Instructor

Data ScienceTech Institute, Paris, France

Teaching activities: Clean IT, Software Engineering, Machine Learning Labs

Jan 2019 - Apr 2019 Private Tutor

Paris, France

Preparing students for the "AWS Certified Solutions Architect – Associate" certification exam

Jun 2015 - Aug 2018 Data Integration Engineer

Data Consult, 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)

Jul 2014 - Aug 2014 Site Implementation and Maintenance (SI&M) Engineering Intern

Touch, Beirut, Lebanon

Theoretical research on the development and advancement of 4G technology

Jun 2012 - Dec 2013 Research Assistant

American University of Beirut, Beirut, Lebanon

Benchmarking and optimization of Alaoui filter and integrator model parameters

in Matlab

Sep 2011 - Sep 2015 Private Tutor

Beirut, Lebanon

Teaching middle school and high school subjects

# **Skills**

Software and Web development: C, C++, Java, JavaScript, Python, HTML5, CSS3

DBMS: Microsoft SQL Server, MySQL, Postgres, Neo4j

Semantic Web: RDF, RDFS, OWL, SPARQL

Machine & Deep Learning: Classification, Regression, Clustering, Reinforcement Learning

Version control: Git, SVN

**Containerization:** Docker

Software: Matlab, Latex

**Operating systems:** Windows, Linux (bash scripting)

Project management: Agile methods (Scrum), Test-

Driven Development

**Cloud Architecture: AWS** 

# Languages

**English** Fluent

French Fluent

Arabic Fluent

## **Hobbies**

Music: Electric Guitar

Reading: Poetry, Literary Fiction, Philosophy, Psychology, Science Fiction, Thrillers, Classical, Computer Science,

Mathematics

Sports: Running, Hiking, Tennis

# **Community Service**

Nov 2024 - Nov 2024 Reviewer **Neurosymbolic Artificial Intelligence Journal** Reviewing paper submissions to the Special Issue after NeSy 2024 Nov 2024 - Jul 2025 **Program Committee Reviewer** XAI 2025 Reviewing paper submissions Aug 2024 - Dec 2024 **Program Committee Reviewer Workshop on Behavioral Machine Learning** @ NeurIPS 2024, Vancouver, Canada Reviewing paper submissions **Program Committee Reviewer** Aug 2024 - Nov 2024 **Harmonising Generative AI and Semantic** Web Technologies @ ISWC 2024, Maryland, **USA** Reviewing paper submissions **Ethics Reviewer** Aug 2024 - Nov 2024 **Industry Track @ EMNLP 2024, Florida, USA** Reviewing paper submissions Jun 2024 - Jul 2024 **Program Committee Reviewer Large Language Models and Cognition @** ICML 2024, Vienna, Austria Reviewing paper submissions Jan 2024 - Present Member **Association for Computational Linguistics** Member of the ACL organization Oct 2023 - Present Member The Alan Turing Institute

> Member of the Knowledge Graphs and Neurosymbolic AI interest groups

Member of the Cognitive AI, AI KR and Knowledge Graph Construction community groups  Apr 2024 - Aug 2024 Program Committee Reviewer NLDM 2024, Chennai, India Reviewing paper submissions  Apr 2024 - Jul 2024 Program Committee Reviewer CSTY 2024, Toronto, Canada Reviewing paper submissions  Mar 2024 - Jul 2024 Program Committee Reviewer XAI 2024, Valletta, Malta Reviewing paper submissions  Mar 2024 - May 2024 Program Committee Reviewer AdNLP 2024, Valletta, Malta Reviewing paper submissions  Feb 2024 - Sep 2024 Program Committee Reviewer AdNLP 2024, Vancouver, Canada Reviewing paper submissions  Feb 2024 - Sep 2024 Program Committee Reviewer NeSy 2024, Barcelona, Spain Reviewing paper submissions  Dec 2023 - May 2024 Program Committee Reviewer NLP & AI (NLPAI) 2024, Virtual Conference Reviewing paper submissions  Nov 2023 - Feb 2024 Program Committee Reviewer NucLeaR @ AAAI 2024 (Neuro-Symbolic Learning and Reasoning in the era of Large Language Models), Vancouver, Canada Reviewing paper submissions  Sep 2023 - Jan 2024 Contributing Author The Paris Institute for Critical Thinking Author of the article "What's in a Name?"  Jul 2023 - Jul 2023 First Aid Training Protection Civile Paris Seine, Paris, France	Sep 2023 - Present	Member W3C
Knowledge Graph Construction community groups  Apr 2024 - Aug 2024  Program Committee Reviewer NLDM 2024, Chennai, India Reviewing paper submissions  Apr 2024 - Jul 2024  Program Committee Reviewer CSTY 2024, Toronto, Canada Reviewing paper submissions  Mar 2024 - Jul 2024  Program Committee Reviewer XAI 2024, Valletta, Malta Reviewing paper submissions  Mar 2024 - May 2024  Program Committee Reviewer AdNLP 2024, Vancouver, Canada Reviewing paper submissions  Feb 2024 - Sep 2024  Program Committee Reviewer Nesy 2024, Barcelona, Spain Reviewing paper submissions  Dec 2023 - May 2024  Program Committee Reviewer NLP & AI (NLPAI) 2024, Virtual Conference Reviewing paper submissions  Nov 2023 - Feb 2024  Program Committee Reviewer NLP & AI (NLPAI) 2024, Virtual Conference Reviewing paper submissions  Sep 2023 - Jan 2024  Contributing Anal 2024 (Neuro-Symbolic Learning and Reasoning in the era of Large Language Models), Vancouver, Canada Reviewing paper submissions  Sep 2023 - Jan 2024  First Aid Training		
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Thinking Author of the article "What's in a Name?"  Jul 2023 - Jul 2023  First Aid Training		The Paris Institute
Author of the article "What's in a Name?"  Jul 2023 - Jul 2023  First Aid Training		for Critical
Jul 2023 - Jul 2023 First Aid Training		Thinking
ů .		Author of the article "What's in a Name?"
<b>Protection Civile Paris Seine, Paris, France</b>	Jul 2023 - Jul 2023	First Aid Training
		Protection Civile Paris Seine, Paris, France

Passed the "PSC1 - Prévention et Secours Civiques de niveau 1" civilian first
respondent and rescue certification

Jun 2023 - Jun 2023 Conference Presenter

The Science and Information (SAI) Organization, London, United Kingdom

Presentation of the paper "The Path to Autonomous Learners" at the Computing

Conference

Jul 2023 - Jul 2023 Program Committee Reviewer

NeSy 2023 (International Workshop on Neural-Symbolic Learning and

Reasoning), Siena, Italy

Reviewing paper submissions

May 2023 - May 2023 Program Committee Reviewer

NeSy-GeMs@ICLR 2023, Kigali, Rwanda

Reviewing paper submissions

Jun 2022 - Feb 2023 Mentor

JobIRL L'orientation In Real Life, Paris, France

Mentorship and job orientation for students looking to enter the data field

Sep 2022 - Oct 2022 Contributing Author

**AI Time Journal** 

Author of the article "The Three Pillars of AI: Symbols, Neurons, and Graphs"

Sep 2022 - Oct 2022 Contributing Author

The AI Journal

Author of the article "The Three Pillars of AI: Symbols, Neurons, and Graphs"

Feb 2022 - Feb 2022 Contributing Author

**Poets Choice** 

Featured author in the "Winter" anthology

**Sep 2021 - Feb 2023 Mentor** 

Social Builder, Paris, France

Mentor in the Women in Digital (WID) program

Mentor in the Adabot program

Mar 2021 - Feb 2023 Corporate Social Responsibility Member

Yseop, Paris, France

Member of the CSR team

Responsible for motivating local and global company initiatives

Liaison with associations and organizations

Jan 2020 - Feb 2023 Ambassador

Data ScienceTech Institute, Paris, France

Mentorship and job orientation for students

### Aug 2015 - Present

### **Contributing Author**

Featured author in notable literary magazines and anthologies:

- The RainPartyDisaster Society
- Talking Soup
- Coffee with Underhill
- Peeking Cat Poetry
- Oddball
- Poetry Potion
- Ten Million Flies
- Kiss My Poetry
- Open Arts Forum
- Clock Radio
- Spillwords
- Hamline Lit Link
- Ink In Thirds
- Poets Choice
- The Pencil App
- Poets Speak
- Red Fez
- Straight Forward Poetry
- Rusted Radishes
- Kissing Dynamite Poetry
- The Dead Magpie
- KREAXXXION Review

### Feb 2021 - Sep 2021

### **Committee Member**

The Financial Narrative Processing (FNP) Workshop, Virtual Conference

Co-chair of FinCausal 2021 Shared Task

#### Nov 2020 - Present

### **Contributing Author & Lifetime Member**

Paris Institute for Critical Thinking, Paris, France

Featured author in "The Thinking Cap"

Jan 2020 - Dec 2020

#### **Committee Member**

**COLING 2020, Virtual Conference** 

Co-chair of FinCausal 2020 Shared Task

Jul 2020 - Dec 2020

#### **Journal Editor**

**Kiss My Poetry** 

Content selection and front-page editor

Mar 2020 - Jul 2020

#### Volunteer

**Greater Paris University Hospitals - AP-HP, Paris, France** 

Data Science volunteer for COVID-19 data analysis tasks

Jan 2020 - Jan 2020 Contributing Author

**Unite the World** 

Author of the poem "Written on the Night of the Lebanese Revolution"

Oct 2018 - Oct 2018 Contributing Author

**Turning Point Books, Beirut, Lebanon** 

Featured author in the "And We Chose Everything" anthology

Jul 2018 - Dec 2022 Ambassador

**Beirut Poetics** 

Ambassador of the Beirut Poetics Lebanon branch journal

Organizing poetry events

Engaging community members Promoting cultural outreach of poetry

Oct 2016 - Dec 2016 Contributing Author

**Centum Press** 

Featured author in the "One Hundred Voices: Volume One" anthology

### **Awards**

- Second Place in the LLMs4OL challenge at ISWC (2024)
- Third Place in the Scholarly-QALD challenge at ISWC (2023)
- Second Place in the IRSE at FIRE shared task (2023)
- Yseop Company Core Values Award Q3 Trust (2022)
- Second place in the FinSim-3 shared task (2021)
- Yseop Company Core Values Award Q1 Innovation (2021)
- Second Place in HackBordeaux Capgemini challenge (2019)
- Second Place in the National Instruments Elevator Competition (2011)
- Finalist in the International College School Poetry Competition (2010)
- Obtained the national Lebanese examination (Brevet) with Distinction (2008)
- Recipient of the "Philippe Jabre Foundation Scholarship for Excelling Students" (2011-2015)
- Recipient of the "Carlos Ghosn Foundation Scholarship for Excelling Students" (1997-2011)

### **Scientific Publications**

- Hanna Abi Akl, Dominique Mariko, Yann-Alan Pilatte, Stéphane Durfort, Nesrine Yahiaoui, Anubhav Gupta. Knowledge Graphs can play together: Addressing knowledge graph alignment from ontologies in the biomedical domain. KDIR. 2024.
- **Hanna Abi Akl**. Project SHADOW: Symbolic Higher-order Associative Deductive reasoning On Wikidata using LM probing. NATL. 2024.
- Hanna Abi Akl. DSTI at LLMs4OL 2024 Task A: Intrinsic versus extrinsic knowledge for type classification. LLMs4OL at ISWC. 2024.
- Célian Ringwald, Fabien Gandon, Catherine Faron, Franck Michel, **Hanna Abi Akl**. 12 shades of RDF: Impact of Syntaxes on Data Extraction with Language Models. ESWC 2024.
- **Hanna Abi Akl**. NeSy is alive and well: A LLM-driven symbolic approach for better code comment data generation and classification. GeNeSy at ESWC. 2024.
- Célian Ringwald, Fabien Gandon, Catherine Faron, Franck Michel, **Hanna Abi Akl**. Well-Written Knowledge Graphs. AAAI. 2024.
- **Hanna Abi Akl.** PSYCHIC: A Neuro-Symbolic Framework for Knowledge Graph Question-Answering Grounding. The Scholarly-QALD challenge at the International Semantic Web Conference. 2023.
- **Hanna Abi Akl**. A ML-LLM pairing for better code comment classification. Information Retrieval in Software Engineering track at Forum for Information Retrieval Evaluation. 2023.
- Célian Ringwald, Fabien Gandon, Catherine Faron, Franck Michel, **Hanna Abi Akl**. Learning RDF pattern extractors from natural language and knowledge graphs-application to Wikipedia and the LOD. ISWS 2023 & GEMSS. 2023.
- Hanna Abi Akl. The Path to Autonomous Learners. Computing Conference. 2023.
- Rami Bou Khalil, Ramez Dagher, Myriam Zarzour, Ghassan Sleilaty, **Hanna Abi Akl**, Maya Kallab, Sami Richa. 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. Current Psychology, 1-11. 2022.
- Hanna Abi Akl, Dominique Mariko, Hugues De Mazancourt. Yseop at FinSim-3 Shared Task 2021: Specializing Financial Domain Learning with Phrase Representations. Proceedings of the Third Workshop on Financial Technology and Natural Language Processing. 2021.
- Anubhav Gupta, **Hanna Abi Akl**, Hugues De Mazancourt. Not All Titles are Created Equal: Financial Document Structure Extraction Shared Task. Proceedings of the 3rd Financial Narrative Processing Workshop. 2021.
- Dominique Mariko, **Hanna Abi Akl**, Estelle Labidurie, Stéphane Durfort, Hugues de Mazancourt, Mahmoud El-Haj. The Financial Document Causality Detection Shared Task (FinCausal 2021). Proceedings of the 3rd Financial Narrative Processing Workshop. 2021.

- Dominique Mariko, Estelle Labidurie, Yagmur Ozturk, **Hanna Abi Akl**, Hugues de Mazancourt. Data Processing and Annotation Schemes for FinCausal Shared Task. arXiv preprint arXiv:2012.02498. 2020.
- Hanna Abi Akl, Dominique Mariko, Estelle Labidurie. Yseop at SemEval-2020 Task 5: Cascaded BERT Language Model for Counterfactual Statement Analysis. Proceedings of the Fourteenth Workshop on Semantic Evaluation. 2020.
- **Hanna Abi Akl**, Anubhav Gupta, Dominique Mariko. Fintoc-2019 shared task: Finding title in text blocks. Proceedings of the Second Financial Narrative Processing Workshop (FNP 2019). 2019.

### **Scientific Patents**

- **Hanna Abi Akl**, Hugues de Mazancourt, Dominique Mariko. Ontology mapping and adaptation systems and methods. U.S. Patent No. 12,106,049. 2024.
- **Hanna Abi Akl**, Hugues de Mazancourt, Dominique Mariko, Valentin Pierart. Systems and methods for measuring automatability of report generation using a natural language generation system. U.S. Patent No. 11,734,517. 2023.
- Dominique Mariko, **Hanna Abi Akl**, Hugues de Mazancourt. Techniques for generating natural language text customized to linguistic preferences of a user. U.S. Patent No. 11,501,088. 2022.

# **Literary Publications**

- Game Theory (Amazon Kindle Direct Publishing, Sep 13 2024)
- Titans (Amazon Kindle Direct Publishing, Aug 1 2023)
- Memory (Waterton Publishing Company, Aug 16 2022)
- Correspondence (Waterton Publishing Company, Aug 1 2021)
- Stems from the Edge of Silence (Waterton Publishing Company, May 1 2020)
- It's a Big Big World (Waterton Publishing Company, Jul 29 2019)
- Vitality (Waterton Publishing Company, Dec 15 2018)
- Diary In Poems (G&J Productions, Apr 1 2018)
- A Road Away From Home (G&J Productions, Jan 1 2017)

### **Certificates**

Aug 2022 IBM

Neuro-Symbolic AI Essentials

Jul 2022 Neo4j

Certified Professional

May 2022 Udacity

Machine Learning DevOps Engineer

Mar 2022 Hasso Plattner Institute

Knowledge Graphs

Mar 2022 Neo4j

Graph Data Science Certified

Feb 2021 MIT

Minds and Machines

Jan 2021 Udacity

Deep Reinforcement Learning

Nov 2020 Leiden University

Miracles of Human Language: An Introduction to Linguistics

Oct 2020 EPFL (École polytechnique fédérale de Lausanne)

BIO465.2x: Computational Neuroscience: Neuronal Dynamics of

Cognition

Oct 2020 Saint Petersburg State University

Neurolinguistics

Oct 2020 The University of Edinburgh

Philosophy and the Sciences: Introduction to the Philosophy of Cognitive Sciences

Oct 2020 National Research University — Higher School of Economics

Towards language universals through lexical semantics: introduction to lexical and

semantic typology

Aug 2019 CentraleSupelec

Analysez vos données textuelles

Jul 2019 Université Grenoble Alpes

Introduction à la linguistique de corpus

# Jul 2017 Udacity

Artificial Intelligence