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Mickaël Wajnberg

Ph.D. - Data Scientist & A.I./M.L. Scientist

During my double PhD, I specialized in Multi-Relational Data Mining with a strong portfolio of academic publications. After graduation, I've partnered with a startup, Softwords consulting, to commercialize my thesis algorithms. In parallel, I worked as a postdoctoral researcher on a new educational project on predictive maintenance. I also managed 5 research teams for student projects and consulted in AI with 6 clients from pro bono to commercial. Enthusiastic, social and positive, I'm looking forward working with brilliant minds to crack exciting problems.

(438) 792-2038

Montréal
Under Permanent Residency

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mickael-wajnberg

Skills

- Algorithms
- Data Analysis
- Artificial Intelligence
- Management
- Communication
- Ontologies

Languages

French

Native speaker

English

Fluent

Programming

- C++
- SQL
- SPARQL
- Python

Work Experience

Chief Research Officer — **05/2021 - 12/2023**
Softwords Consulting

- *Designed and developed the data mining engine in C++/SQL*
- *Acted as Co-C.P.O. to adapt product features fitting the market*
- *Collaborated on client prospection and marketing strategies*
- *Consulted at client's to provide data analysis and training*

Postdoctoral Researcher — **05/2021 - 02/2023**
Université du Québec À Montréal - RTMQ

- *Designed T.F. deep learning predictive maintenance models*
- *Developed a MERN Stack and GitLab (CI/CD) DevOps*
- *Managed a team of 5 interns*

A.I. Consultant — **12/2022 - Present**
Freelance

- *Tailored AI conferences/workshops to non-specialized audiance*
- *Edited and reviewed grant applications*
- *Guided startups in recommendation system design*

Research Intern - MITACS Grant — **06/2015 - 10/2016**
GoldFish Technologies

- *Manipulated Ontologies and TripleStores with SPARQL*
- *Developed recommendation system on heterogenous data*

Various Teaching Positions — **06/2015 - 06/2023**

- *Course Lecturer - UQAM : Introduction to programming*
- *Research supervisor - Telecom Nancy : 5 teams of 2-3 students*
- *Teacher Assistant - UQAM : Relational Databases*
- *Teacher Assistant - UQAM : Artificial Intelligence*
- *Research co-supervisor - Telecom Nancy : 1 team of 2 students*
- *Teacher Assistant - Telecom Nancy : XML*

Accomplishments

2023

Joined Mensa International

2018

Came in 2nd place for the hackathon HackQc by developing a web app that computes a score evaluating environmental aspect of any address in Montréal. Took into account number of trees, size of surrounding parks, water and air quality

2011- 2012

Successfully managed a team of 100+ volunteers for an event of 4,500+ attendees at Anim'Est (a convention on japanese culture) as Head of Logistics and Human Resources

Interests

Sciences | Teaching | Writing/Playing Music | Martial Arts | Improv' Theater | Escape Games | Chess

Education

Ph.D. in Computer Science | 2020

UQAM (Canada) and Université de Lorraine (France)

- *With Highest Honors and GPA : 4.3/4.3*
- *Specialty in Data Mining*
- *Joint supervision (cotutelle)*

Masters in Computer Science | 2015

UQAC (Canada)

- *Specialty in Metaheuristics - intership at Polytechnique*

Masters in Computer Science Engineering | 2014

Télécom Nancy (France)

- *Specialty in Algorithms and Data Structures*

Publications

Poor diet quality is associated with immune aging in survivors of pediatric acute lymphoblastic leukemia

Benmoussa, Kientega, Morel, Cardin, Bérard, Wajnberg, Valtchev, Blondin-Masse, Curnier, Krajinovic, Laverdière, Sinnett, Levy, Marcoux, Rodier, Marcil ***in Cancer research (2022)***

FCA went (multi-) relational, but does it make any difference?

Wajnberg, Valtchev, Lezoche, Blondin-Massé, Panetto ***at CEUR-WS (2021)***

Mining heterogeneous associations from pediatric cancer data by Relational Concept Analysis

Wajnberg, Valtchev, Blondin-Massé, Benmoussa, Krajinovic, Laverdiere, Levy, Sinnett, Marcil ***at ICDM-W (2020)***

The Dictionary Game: Toward a Characterization of Lexical Primitives Using Graph Theory and Relational Concept Analysis

Wajnberg, Poulin, Massé, Valtchev ***at Cognitive (2020)***

Tutorial Donereca

Wajnberg, Valtchev ***at JOWO (2019)***

Mining process factor causality links with multi-relational associations

Wajnberg, Valtchev, Lezoche, Panetto, Blondin Massé ***at Knowledge Capture (2019)***

Concept analysis-based association mining from linked data: A case in industrial decision making

Wajnberg, Valtchev, Lezoche, Panetto and Blondin-Massé. ***at DAO-SI (2019)***

Semantic interoperability of large systems through a formal method: Relational Concept Analysis

Wajnberg, Lezoche, Blondin-Massé, Valtchev, Panetto and Tyvaert ***at IFAC (2018)***