

Hanneli Tavante

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Education

McGill University	Montréal, QC
<i>PhD Candidate - Computer Science</i>	2020-2024(expected)
Universidade Federal de Itajubá	Itajubá, MG
<i>Master's Degree - Electrical Engineering</i>	2018 - 2019
<i>Bachelor - Computer Engineering</i>	2007 - 2011

Summary and Interests

Software developer with 10+ years of experience in Software Engineering, web development and public speaking. Graduate student at McGill University.

Topics of interest:

- Functional programming, Programming Languages, metaprogramming, proof assistants and Type Theory
- Applied Mathematics, Signal Processing, Control systems, Robotics, Data Science, Machine Learning
- CS and Engineering Education

Academic Experience

Jan 2020 - Present **Graduate Student at McGill University - Computer Science**

- Student volunteer co-captain for POPL'20
- Student volunteer co-captain for ICFP'20
- Student volunteer co-captain for POPL'21
- Teaching Assistant for COMP302 - Principles of Programming Languages (Winter 2020 + Fall 2020 + Winter 2021)

Projects:

- Contextual LF in Coq (paused)
- LearnOCaml - Data collection and data analysis of online programming environments in functional programming (active)

Fev 2018 - Dec 2019 **Master's projects at UNIFEI**

- Advisors: Prof. Benedito Bonatto and Prof. Maurilio Coutinho - Universidade Federal de Itajubá
- Secure Cloud - International Research Project (Europe and Brazil) about secure private cloud environments. Role: Develop systems, attend meetings, improve the communication of the team. Supervisor: Prof. Maurilio Coutinho.
- aPTIs-SG2 - Smart Grids laboratory. Role: Developer Student. Supervisor: Prof. Benedito Bonatto
- Publications: "Open Source Implementations of Electromagnetic Transient Algorithms" - INDUSCON 2018 - IEEE
- TA - Deep Learning, Python and Functional Programming extension courses. ([lecture sample](#))
- Student Volunteer at POPL'19, ECOOP'19 and ICFP'19.
- Summer Schools and Workshops: [PLMW'18](#) (at ICFP'18), [PLISS'19](#) and [OPLSS'19](#)

Industry Experience - LinkedIn: <http://br.linkedin.com/in/hannelita>

Aug 2017 - present **Independent Senior Consultant**

- Build APIs, Big Data, NoSQL, Data Science, Data Engineering
- Functional Programming and Machine Learning projects.

June 2014 - Apr 2017 **Senior Developer and Team Leader at Codeminer42**

- Manage and organise worldwide teams, helping them with technical issues.
- Main consulting areas: data analysis, data engineering, integration, database connectors, management of frameworks and libraries, implementation of performance tests, devops.

Oct. 2013 - May 2014 **Middleware Consultant at Red Hat**

- Deal with the customers and propose middleware Java solutions. Propose and manage workshops about Red Hat products for customers and co-workers.
- Understand and interact with sales and business environment, revise sales proposals and solutions.

Nov.2012 - Oct. 2013 **Developer at Top Free Games**

- Build cloud solutions with Heroku and Amazon AWS to increase backend systems performance. Monitor systems availability and performance, create auto-scalable systems, collect and analyse real time data with Cassandra, Kafka and Hadoop. Develop client apps for iOS.

Aug.2011 - Oct. 2012 **Developer and Instructor at Caelum**

- Provide training sessions as an instructor for company's training programs. Assist the students continuously, providing them with information about the IT career and best architecture practices.
- Develop new training programs and improve the existing ones.

Feb. 2011 - Jul. 2011 **Developer at SOA|Expert**

- Propose and build internal system architectures.
- SOA consulting, enterprise integration solutions.

Jan. 2010 - Jan. 2011 **Intern/Developer at B2ML Systems**

- Java (frontend and backend).
- Optimise systems performance, increase team productivity with new frameworks and tools.

Certifications

Machine Learning (Coursera)	2016
Introduction to Mathematical Thinking - Coursera (Stanford)	April, 2015
OCJP - Oracle Certified Java Programmer for Java 6	October, 2010

Complementary Projects

- Uai!rior Robotics team - Electronics development team. Circuits project, design and optimisation.
- Article "Web social networks meters and business usage analysis" - IEEE on CaSON 2011.
- Open Source Software contributor to Ruby, Java, JBoss, Neo4j, Cassandra.
- Speaker in many [conferences](http://hannelita.com/conferences/) [http://hannelita.com/conferences/] (Brazil, USA, Europe, Argentina and Canada).
- Cassandra MVP 2015, 2016.

Extra info

- Github - <https://github.com/hannelita>
- Slides - <https://slides.com/hannelitavante-hannelita>
- Languages: Portuguese [native], English [C1]; French [B2]; German[A1]; Spanish [A2]