

**Contact  
Information****Affiliation:**

GEODES, Software Engineering Research Lab  
 Département d'Informatique et de Recherche Opérationnelle (DIRO)  
 Université de Montréal

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**Research  
Interests**

Deep learning for software engineering, multimodal representation learning, natural language processing, graph neural networks, information retrieval and program synthesis.

**Education****University of Montreal**

PhD, Computer Science Fall 2020 - present

**Thesis topic:** Deep learning for software engineering, multimodal learning

**Advisor:** Prof. [Houari Sahraoui](#)

Research Internship Fall 2019 - Fall 2020

**Advisor:** Prof. Houari Sahraoui

**University of Namur, Belgium**

MSc., Computer Science and Data Science 2018 - 2020

**Thesis advisor:** Prof. Houari Sahraoui

**Grade:** 19/20 (*highest grade*)

BSc., Computer Science, Minors Mathematics 2015 - 2018

**Scholarships**

Scholarship for Excellence, DIRO – 5000 CAD 2021

Google Scholarship for Excellence, DIRO – 26,000 CAD 2021

Scholarship for Excellence, DIRO – 5000 CAD 2020

Research Scholarship, Mitacs Globalink Canada – 6000 CAD Spring 2020

**Community  
Services**

ICLR 2022, DL4C Workshop – *Program Committee* 2022

SOSYM Journal AI-MDE Theme Issue – *Reviewer* 2021

IEEE SANER Conference – *Reviewer* 2021

ACM/IEEE MODELS Conference – *Student Volunteer* 2020

IEEE Transactions on Software Engineering – *Reviewer* 2020

Data & Models Workshop – *Participant* 2020

Participant of a workshop about the role of artificial intelligence in model-driven engineering organized at McGill's Bellairs Research Institute.

(<http://www.bellairs2020.ece.mcgill.ca/index.htm>)

<b>Teaching</b>	University of Namur	
	INFOB318 - Individual bachelor project, <i>Project Supervisor</i>	2020 - 2021
	INFOB131 - Introduction to programming, <i>Teaching Assistant</i>	Fall 2020
<b>Students (co)-supervision</b>	Aton Kamanda (MSc) – Deep RL and program synthesis	
	Lucas Maes (MSc) – Deep RL and program synthesis	
<b>Past students</b>	Bastien Nicolas (MSc.)	Spring 2021
	<i>Learning from Code Flow Dependencies using Graph Neural Networks for Code Refactoring</i>	
	Lucas Maes (BSc.)	Fall 2020 - Spring 2021
	<i>Code Documentation Generation Plug-In Development using Pretrained Language Models</i>	
	Aton Kamanda (BSc.)	Fall 2020 - Spring 2021
	<i>Code Search Plug-In Development using Pretrained Language Models</i>	
<b>Publications</b>	<b>M. Weyssow</b> , H. Sahraoui & B. Liu (2022)	
	Better Modeling the Programming World with Code Concept Graphs-augmented Multi-modal Learning	
	<i>44th IEEE International Conference on Software Engineering, New Ideas and Emerging Results (ICSE-NIER'22)</i>	
	<b>M. Weyssow</b> , H. Sahraoui & E. Syriani (2021)	
	Recommending Metamodel Concepts during Modeling Activities with Pre-Trained Language Models	
	<i>Software and Systems Modeling, theme issue on AI-enhanced Model-Driven Engineering</i>	
	Mussbacher, G., Combemale, B., Kienzle, J. et al. (2020)	
	Opportunities in intelligent modeling assistance	
	<i>Software and Systems Modeling</i>	
	<b>M. Weyssow</b> , H. Sahraoui, B. Vanderose & B. Frénay (2020)	
	Combining Code Embedding with Static Analysis for Function-Call Completion	
	<i>arXiv preprint arXiv:2008.03731</i>	
	G. Mussbacher, B. Combemale, S. Abrahão, N. Bencomo, L. Burgueño, G. Engels, J. Kienzle, T. Kühn, S. Mosser, H. Sahraoui, <b>M. Weyssow</b> (2020)	
	Towards an Assessment Grid for Intelligent Modeling Assistance	
	<i>2nd Workshop on Artificial Intelligence and Model-driven Engineering</i>	