

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

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

E-mail: martin.weyssow@umontreal.ca

Web: martin-wey.github.io

**Research
Interests**

Machine learning for software engineering, multi-modal representation learning, natural language processing, deep learning, graph neural networks, information retrieval and recommender systems.

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 (University of Montreal) 2021

Google Scholarship for Excellence, DIRO (University of Montreal) 2021

1 year of full-time research fundings

Scholarship for Excellence, DIRO (University of Montreal) 2020

Research Scholarship, Mitacs Globalink Canada Spring 2020

**Community
Services**

SOSYM Journal AI-MDE Theme Issue, *Peer Reviewing* 2021

IEEE SANER Conference, *Peer Reviewing* 2021

ACM/IEEE MODELS Conference, *Student Volunteer* 2020

IEEE Transactions on Software Engineering, *Peer Reviewing* 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>)

Teaching	University of Namur	
	INFOB318 - Individual bachelor project, <i>Project Supervisor</i>	2020 - 2021
	INFOB131 - Introduction to programming, <i>Teaching Assistant</i>	Fall 2020
Students	Aton Kamanda (MSc)	
(co)-supervision	Lucas Maes (MSc)	
Past students	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>	
Publications	M. Weyssow , H. Sahraoui & B. Liu (2022)	
	Better Modeling the Programming World with Code Concept Graphs-augmented Multi-modal Learning	
	44th IEEE International Conference on Software Engineering, New Ideas and Emerging Results (ICSE-NIER'22)	
	M. Weyssow , H. Sahraoui & E. Syriani (2021)	
	Recommending Metamodel Concepts during Modeling Activities with Pre-Trained Language Models	
	arXiv preprint arXiv:2104.01642.	
	Software and Systems Modeling, theme issue on AI-enhanced Model-Driven Engineering	
	Mussbacher, G., Combemale, B., Kienzle, J. et al. (2020)	
	Opportunities in intelligent modeling assistance	
	Software and Systems Modeling	
	M. Weyssow , H. Sahraoui, B. Vanderose & B. Frénay (2020)	
	Combining Code Embedding with Static Analysis for Function-Call Completion	
	arXiv preprint arXiv:2008.03731	
	G. Mussbacher, B. Combemale, S. Abrahão, N. Bencomo, L. Burgueño, G. Engels, J. Kienzle, T. Kühn, S. Mosser, H. Sahraoui, M. Weyssow (2020)	
	Towards an Assessment Grid for Intelligent Modeling Assistance	
	2nd Workshop on Artificial Intelligence and Model-driven Engineering	