Contact Information	**Affiliation:**
	GEODES, Software Engineering Research Lab Département d'Informatique et de Recherche Opérationnelle (DIRO) University of Montreal
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Research Interests

Deep learning for code, multimodal learning, meta-learning, continual learning, graph neural networks, large language models and program synthesis.

Education

University of Montreal

Ph.D., Computer Science	Fall 2020 - present

Thesis topic: Deep learning for code, multimodal learning and meta-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)

Teaching	University of Namur	
	INFOB318 - Individual bachelor project, *Project Supervisor*	2020 - 2021
	INFOB131 - Introduction to programmation, *Teaching Assistant*	Fall 2020

Students	Aton Kamanda (MSc) – Deep RL and program synthesis
(co)-supervision	Lucas Maes (MSc) – Deep RL and program synthesis

Past students	Bastien Nicolas (MSc.) Spring 2021
	Learning from Code Flow Dependencies using Graph Neural Networks
	for Code Refactoring
	Lucas Maes (BSc.) Fall 2020 - Spring 2021
	Code Documentation Generation Plug-In Development using Pretrained
	Language Models
	Aton Kamanda (BSc.) Fall 2020 - Spring 2021
	Code Search Plug-In Development using Pretrained Language Models

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
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