

Annelie De Mori

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EDUCATION

Université de Montreal	Montreal, QC
Master of Science: Bioinformatics	Sep 2024 – Aug 2026
Bachelor of Science: Bioinformatics	Aug 2021 – May 2024
• Awarded 5 merit scholarships covering 75% of tuition. Volunteered in events to represent department for 1,000+ guests	

EXPERIENCE

CHUM Research Center (Neuroscience Axis) – Martine Tetreault Lab	Montreal, QC
Master's Student & Research Intern	May 2023 – Present
• Profiled short tandem repeat expansions across 32 neurogenetic loci in 2,184 WGS samples from the CARTaGENE cohort, estimating carrier frequencies and disease prevalences for conditions including DM1, FRDA, and SCA27B	
• Characterized 12 significantly enriched pathogenic founder variants across SYNE1, SPG11 and SPG7 in Québec through integrative analysis of WGS, RNA-seq, and WES data, contributing to a co-author manuscript	
• Developed the bioinformatics pipeline for a \$15.2M long-read sequencing project, benchmarking and integrating 12+ tools spanning STR expansion detection, variant calling, and haplotype phasing	
Université de Montreal	Montreal, QC
Teaching Assistant	Jan 2025 – Apr 2026
• Taught practical bioinformatics sessions across 3 undergraduate and graduate courses, training students in programming (Bash, Python, R), NGS/RNA-seq analysis, biological databases, and computational structural biology	

RESEARCH CONTRIBUTIONS

Publications	
• <i>A multi-ancestry genetic reference for the Québec population</i>	Feb 06 2026
Nature Communications	DOI:10.1038/s41467-026-68820-7
McClelland, P., Femerling, G., Laflamme, R. <i>et al.</i>	
Poster Presentations	
• <i>Identifying pathogenic variants of SPG7 using genomics data from the CARTaGENE Biobank</i>	Montreal, Oct 2024
A. De Mori*, M. Labrecque, V. Triassi, S. Audet, A. Laberge, C. Bherer et M. Tetreault.	
25th CHUM Research Center Student, Postdoctoral Fellows and Resident Convention	
• <i>Estimating the prevalence of Spastic Paraplegia type 7 in Québec</i>	Montreal, Nov 2024
A. De Mori*, M. Labrecque, V. Triassi, S. Audet, A. Laberge, C. Bherer et M. Tetreault.	
Annual Symposium of CERMO-FC (Center of Excellence in Research on Orphan Diseases – Fondation Courtois) 2024	
• <i>A Genomics-based approach to estimating SPG7 prevalence in the Québec Population</i>	Quebec City, Oct 2025
A. De Mori*, M. Labrecque, V. Triassi, S. Audet, A. Laberge, C. Bherer et M. Tetreault.	
66th CRCQ (Quebec Clinical Research Club) Annual Meeting	
• <i>Estimating the prevalence of SPG7 using genomics data from the CARTaGENE Biobank</i>	Boston, Oct 2025
American Society of Human Genetics 2025 Annual Meeting	