

Guillaume Poirier- Morency

Bioinformatician

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I currently work as a Bioinformatician at BugSeq Bioinformatics.

Previously, I've been working as a Bioinformatics Programmer/Analysis at the Michael Smith Laboratories under the guidance of Dr. Paul Pavlidis. I mainly worked on Gemma, a platform for curating and re-analyzing data from gene expression studies and led the development of the Rare Disease Models & Mechanisms Network platform.

In 2021, I graduated in Computer Science at Université de Montréal and pursued a master degree specialized in Computational Biology and Deep Learning at the Institute for Research in Immunology and Cancer (IRIC) under the supervision of Dr. François Major.

Beside that, I'm the father of two wonderful kids and an avid cyclist.

Featured skillset

- Team work
- Programming in Java, Python, C
- Proficient with Spring, Hibernate and a numerous other Java libraries
- Experienced with Vue.js, HTML5, CSS3, OpenAPI
- Software development with git, Meson, Maven, uv
- Machine learning
- Mathematical modelling
- Numerical optimization
- RNA-Seq and WGS data analysis

Professional experience

- Since 2026 **Bioinformatician**, *BugSeq Bioinformatics*, Vancouver (remote)
- 2019 to 2026 **Bioinformatics Programmer/Analyst**, *The University of British Columbia*, Vancouver
Undertook the development and maintenance of Gemma, RDMM and performed high-throughput data analyses for collaborators at the Pavlidis Lab.
- 2019 **Teaching Assistant**, *Université de Montréal*, Montreal
Bioinformatics analysis (BIM6065C)
- Autumn 2018 **Teaching Assistant**, *Université de Montréal*, Montreal
Data structure (IFT2015/IFT6002)
- 2016 to 2017 **Research Intern**, *IRIC*, Montreal
- Winter 2016 **Teaching Assistant**, *Université de Montréal*, Montreal
Mobile programming (IFT1155)
- 2012 to 2015 **Web and Software Developer**, *Hète.ca*, Montreal
Web development with PHP5 and the Kohana framework, jQuery, MySQL, SQLite and other tools.

Academic background and distinctions

- 2017 to 2021 **M.Sc.**, *Université de Montréal*, Montreal
Master of Computer Science with a Computational Biology focus
- Summer 2016 **Award**, *Université de Montréal*, Montreal, \$2000
FRQNT supplement for NSERC USRA awardees
- Summer 2016 **Award**, *Université de Montréal*, Montreal, \$5675
NSERC Undergraduate Student Research Awards
- 2014 to 2017 **B.Sc.**, *Université de Montréal*, Montreal
Bachelor degree in Computer Science
- 2013 to 2014 **B.Sc.**, *Université de Montréal*, Montreal
Bachelor in Computer Science and Mathematics
- 2010 to 2013 **College**, *Collège de Bois-de-Boulogne*, Montreal
College degree in Computer Science and Mathematics

Projects and competitions

- 2026 **BiGSAT**, *Life Science Centre (UBC)*, <https://bigsat.ca/>
Judge during poster sessions and speed talks.

- 2022 **GemBrow**, *The University of British Columbia*, <https://gemma.msl.ubc.ca/browse/>
GemBrow is a modern browser for Gemma.
- 2020 **Gemma**, *The University of British Columbia*, <https://gemma.msl.ubc.ca/>
Gemma is a curated database of reanalyzed gene expression studies.
- 2020 **RDMM**, *The University of British Columbia*, <https://rare-diseases-catalyst-network.ca/>
The Rare Disease Model & Mechanism Network enables collaboration among canadian modal organism researchers to study rare disease.
- 2020 **MAGERS**, *The University of British Columbia*, Vancouver
Performed analysis on linked-read whole-genome sequencing and whole blood RNA-Seq data on a cohort of deeply phenotyped schizophrenia patients.
- 2019 **Hackaton BDC**, *BDC*, Montreal
- 2017 **CSGames 2017**, *ÉTS*, Montreal
First places in Web and Relay Programming competitions, second place incryptocurrency mining challenge and third place in Artificial Intelligence.
- 2016 **CSGames 2016**, *UQÀM*, Montreal
Second place in Web competition.
- Summer **RNA Engineering Lab**, *IRIC*, Montreal
- 2015 Summer project at François Major's RNA Engineering Lab.
- 2015 **CSGames 2015**, *Université de Sherbrooke*, Sherbrooke
Second places in Web and Relay Programming competitions.
- Valum**, <https://github.com/valum-framework/valum>
Valum is a asynchronous Web micro-framework powering applications written in Vala.
- 2014 **WearHacks**, *La Commune*, Montreal
Hackaton with wearable devices.
- 2014 **CSGames 2014**, *ÉTS*, Montreal
Participation to Web and Database challenges.

Publications and contributions

- 2026 **Persistent hindrances to data re-use in single-cell genomics**, *Scientific Data*

- 2025 **Global partnerships in rare disease research**, *Disease Models & Mechanisms*
- 2024 **SETD1A variant-associated psychosis: A systematic review of the clinical literature and description of two new cases**, *Progress in Neuro-Psychopharmacology and Biological Psychiatry*
- 2022 **ModelMatcher: A scientist-centric online platform to facilitate collaborations between stakeholders of rare and undiagnosed disease research**, *Human Mutation*
- 2021 **Curation of over 10 000 transcriptomic studies to enable data reuse**, *Database*
- 2020 **Modélisation des réseaux de régulation des gènes par les microARN**, *Papyrus*, <https://doi.org/10.71781/10567>
- 2019 **Montreal RNA Salon**, *IRCM*, Montreal
First talk of the event presenting miRBooking 2.0.
- 2019 **CSMB Annual Conference**, Montreal
Short talk at the Computer Model session.
- 2019 **Forum Bioinfo**, *Université de Montréal*, Montreal
Presentation of my work on miRBooking 2.0 to a cohort of undergraduate students.
- 2018 **IRIC Symposium**, Montreal
Poster and rapid talk at an international symposium.
- 2018 **RiboClub Seminar**, Sherbrooke
Short talk introducing miRBooking 2.0.