

Andy Garnier

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Experience

Medical Writer

July 2025 – Present

bMod Communications, Montreal, QC

- Transforming complex clinical and pharmaceutical data into accurate, compliant content for HCPs and lay audiences
- Ensuring regulatory compliance across medical and promotional content in alignment with relevant guidelines
- Advising clients and internal teams, ensuring high-quality medical content delivery
- Automating PDF handling tasks to streamline workflows, with 1,000+ pages processed to date

Associate Scientist, Lab Operations

May 2024 – June 2025

IQVIA Laboratories, Laval, QC

- Built automation tools that enabled users to reduce manual input by 96% and save 100 hours annually
- Performed R&D and clinical testing of 6 projects using ELISA-based assays adhering to ICH-GCP, GDP, and GCLP
- Managed the application lifecycle for LabVantage LIMS ensuring smooth deployment and functionality
- Led initiatives to implement and maintain the 6S lean methodology to improve workplace efficiency and safety

Graduate Researcher in Cell Biology

Sept 2021 – June 2022

McGill University, Montreal, QC

- Designed and conducted experiments for a project studying microtubule dynamics *in vitro*
- Operated and maintained lab equipment, including TIRF microscopes, ultracentrifuges, and pH meters
- Presented research findings to specialized and general audiences

Student Assistant in Food Biochemistry

Oct 2018 – June 2021

Memorial University of Newfoundland, St. John's, NL

- Prepared 10+ literature updates for food biochemistry book chapters
- Performed comprehensive reviews of 100s of scientific articles for relevant information to given topics
- Wrote as a first author for a review article

Education

Certificate in Applied Bioinformatics

Sept 2024 – Mar 2025

UC San Diego Extended Studies

- Acquired skills in bioinformatics tools, genomic sequencing technologies, UNIX-based data processing, and database design for managing complex biological information

Master of Science in Biochemistry

Aug 2022 – May 2024

McGill University, GPA: 4.00/4.00

- Thesis: Targeting heme oxygenase-1 dependency in SMARCA4-deficient cancers
- Project Summary: Targeted cancer cells by selective protein inhibition while minimizing harm to healthy cells, encompassing computational virtual docking of 50 million compounds to identify therapeutics and protein target validation using 10 cancer cell models

Bachelor of Science (Honours) in Biochemistry

Sept 2017 – May 2021

Memorial University of Newfoundland, GPA: 3.97/4.00

- Minor in Chemistry
- Thesis: Molecular dynamics simulations of alpha-synuclein with macromolecular crowding
- Project Summary: Explored the influence of the cellular environment on protein structure and dynamics by analyzing contact maps, radii of gyration, and secondary structure timelines of computational molecular dynamics simulations

Publications

Garnier, A. and Shahidi, F. (2021). Spices and herbs as immune enhancers and anti-inflammatory agents: A review. *Journal of Food Bioactives*, 14, 20-52.

Shahidi, F., Oh, W. Y., Garnier, A., and Christophe, A. B. (2020). Structural Effects on Absorption, Metabolism, and Health Effects of Lipids. *Bailey's Industrial Oil and Fat Products*, 1-18.

Skills

Language English (Native), French (Professional)

Computational Languages (Python, Bash, R, HTML, CSS, JavaScript), OS (Windows, UNIX), Databases (SQL, NoSQL, XML), GitHub, High-Performance Computing, Next-Generation Sequencing, Molecular Modeling (PyMOL, VMD, ChimeraX), Virtual Screening (AlphaFold, AutoDock Vina), Molecular Dynamics Simulations (GROMACS)

Laboratory ELISA, Immunoblot, Protein Purification, Molecular Cloning, Immunofluorescence Microscopy, Cell Culture, Lentiviral Transduction

Presentations

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| Cracking the code on Canada's silent killer <i>Three Minute Thesis Competition, McGill, Montreal, QC</i> | Mar 2024 |
| A computational approach to treating cancer <i>GradTalks, School of Biomedical Science, McGill, Montreal, QC</i> | Mar 2024 |
| Heme oxygenase-1 as a synthetic lethal target in SMARCA4-deficient cancers <i>Spotlight Seminar Series, Goodman Cancer Institute, Montreal QC</i> | Jan 2024 |
| Des pixel au progrès: découvrant des médicament par criblage virtual <i>Science POP Grand Provincial Final, Montreal Clinical Research Institute, Montreal, QC</i> | May 2023 |
| Targeting the missing piece in cancer <i>Biochemistry Research Day, McGill, Montreal, QC</i> | Apr 2023 |
| From pixels to progress: virtual screening's role in accelerating drug discovery <i>Science POP Competition, McGill, Montreal, QC</i> | Apr 2023 |
| The effects of CKAP2 and CKAP2L on microtubule structure and dynamics <i>Anatomy and Cell Biology Research in Progress, McGill, Montreal, QC</i> | May 2022 |
| Targeting CKAP2 and CKAP2L to treat cancer and rare disease <i>Molecular and Cellular Biophysics Center Blue Sky Day Symposium, Montreal, QC</i> | Mar 2022 |

Awards

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| Master's Training Scholarship – <i>Fonds de recherche du Québec</i> – (\$20,000/year) | May 2023 |
| – Awarded for academic excellence and research potential in the field of human health | |
| First Place at McGill's Science POP Competition – <i>McGill University</i> – (\$200) | Apr 2023 |
| – Achieved first place in a scientific communication competition | |
| Canada Graduate Scholarship-Master's – <i>Canadian Institutes of Health Research</i> – (\$17,500) | Sept 2022 |
| – Prestigious national scholarship awarded to top graduate students in Canada | |
| Head's Prize – <i>Memorial University of Newfoundland</i> | May 2021 |
| – Awarded for receiving all A's in biochemistry courses over the duration of the degree | |
| 3x Dean's List, Faculty of Science – <i>Memorial University of Newfoundland</i> | May 2018 – 2021 |
| – Recognized for academic excellence by maintaining a GPA in the top 10% of the faculty | |
| Cole Harbour Foundation Scholarship – <i>Cole Harbour Foundation</i> – (\$4000) | Sept 2018 – 2021 |
| – Awarded for academic excellence and community involvement | |

Volunteer/Extracurricular Experience

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| Theatre Actor – <i>Theatre Sainte-Catherine</i> | Sept 2021 – Present |
| – Performs regularly in weekly improvisation comedy shows for up to 120 audience members | |
| TEDx Event Host – <i>TEDxPlateauMontRoyal</i> | Nov 2024 |
| – Presented an instructional talk, introduced guest speakers, and managed the day's progression | |
| VP Social Media – <i>McGill's Biochemistry Graduate Student Society</i> | June 2023 – May 2024 |
| – Promoted events on social media platforms and planned events | |
| VP External/Finance – <i>McGill Improv</i> | May 2022 – May 2024 |
| – Planned biweekly shows, led weekly workshops, and promoted the club | |
| Internal Affairs Committee Member – <i>McGill's Postgraduate Student Society</i> | Oct 2022 – May 2024 |
| – Hosted and led biweekly events for graduate students | |
| Head Runner – <i>McGill's Student Run Club</i> | May 2023 – Dec 2023 |
| – Led weekly runs for an advanced running group (5-5:30min/km for 8+km) | |
| TEDx Event Host – <i>TEDxAveLorne</i> | Sept 2023 |
| – Welcomed the audience, introduce guest speakers, and manage the days progression | |
| Orientation Events Leader – <i>McGill's Campus Life and Engagement</i> | Sept 2022 and 2023 |
| – Led events across campus and downtown for incoming students | |
| VP Internal – <i>McGill's Cell Biology Graduate Student Society</i> | Sept 2021 – June 2022 |
| – Planned regular events for students, managed social media, and organized meetings | |