

Andy Garnier

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Education

Doctor of Philosophy in Interdisciplinary Life and Environmental Science

Sept 2026 – Present

University of Oxford, St John's College, Oxford, UK

- ILESLA Doctoral Training Programme
- Open-IIC industry studentship integrating academic and industrial research

Certificate in Applied Bioinformatics

Sept 2024 – Mar 2025

UC San Diego Extended Studies, GPA: 4.00/4.00

- 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, Montreal, QC, Canada, GPA: 4.00/4.00

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

Bachelor of Science (Honours) in Biochemistry

Sept 2017 – May 2021

Memorial University of Newfoundland, St. John's, NL, GPA: 3.97/4.00

- Minor in Chemistry
- Thesis: Molecular dynamics simulations of alpha-synuclein with macromolecular crowding
- 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

Experience

Medical Writer

July 2025 – Aug 2026

bMod Communications, Montreal, QC, Canada

- Creating PAAB-, ASC-, and FDA-compliant content across 300+ medical communications projects
- Supporting materials across 30+ brands spanning 12+ therapeutic areas
- Serving as a primary medical and regulatory point of contact for clients and internal teams
- Creating promotional and educational materials across digital, print, and live formats
- Built 4 Python workflow automation tools processing 5,700+ document pages

Associate Scientist, Lab Operations

May 2024 – June 2025

IQVIA Laboratories, Laval, QC, Canada

- Performed R&D and clinical testing of 6 projects using ligand binding assays adhering to GDP and GCLP
- Built automation tools that enabled users to reduce manual input by 96% and save ≈100 hours annually
- Assisted LabVantage LIMS update deployment to ensure smooth functionality

Graduate Researcher in Cell Biology

Sept 2021 – June 2022

McGill University, Montreal, QC, Canada

- 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, Canada

- 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

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), High-Performance Computing, Molecular Modeling, Virtual Screening, Molecular Dynamics Simulations
Laboratory	ELISA, ELLA, Immunoblot, Protein Purification, Molecular Cloning, Immunofluorescence Microscopy, Cell Culture, Cell Viability Assays, Lentiviral Transduction

Presentations

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

Awards

ILESIA Open-IIC Industry Doctoral Studentship – University of Oxford – (Fully funded) – Highly competitive DPhil scholarship awarded through the ILESIA Doctoral Training	Sept 2026 - 2030
Master's Training Scholarship – Fonds de recherche du Québec – (20,000 CAD/year) – Awarded for academic excellence and research potential in the field of human health	May 2023
First Place at McGill's Science POP Competition – McGill University – (200 CAD) – Achieved first place in a scientific communication competition	Apr 2023
Canada Graduate Scholarship-Master's – Canadian Institutes of Health Research – (17,500 CAD) – Prestigious national scholarship awarded to top graduate students in Canada	Sept 2022
Head's Prize – Memorial University of Newfoundland – Awarded for receiving all A's in biochemistry courses over the duration of the degree	May 2021
3x Dean's List, Faculty of Science – Memorial University of Newfoundland – Recognized for academic excellence by maintaining a GPA in the top 10% of the faculty	May 2018 – 2021
Cole Harbour Foundation Scholarship – Cole Harbour Foundation – (4000 CAD) – Awarded for academic excellence and community involvement	Sept 2018 – 2021

Volunteer/Extracurricular Experience

Advocacy Constituency Team Lead – Canadian Cancer Society – Advocating for better cancer care and policies	Oct 2025 – Sep 2026
Theatre Actor – Theatre Sainte-Catherine – Performing regularly in weekly improvisation comedy shows for up to 120 audience members	Sept 2021 – Sept 2026
TEDx Event Host – TEDxPlateauMontRoyal – Presented an instructional talk, introduced guest speakers, and managed the day's progression	Nov 2024
VP Social Media – McGill's Biochemistry Graduate Student Society – Promoted events on social media platforms and planned events	June 2023 – May 2024
VP External/Finance – McGill Improv – Planned biweekly shows, led weekly workshops, and promoted the club	May 2022 – May 2024
Internal Affairs Committee Member – McGill's Postgraduate Student Society – Hosted and led biweekly events for graduate students	Oct 2022 – May 2024
Head Runner – McGill's Student Run Club – Led weekly runs for an advanced running group (5-5:30min/km for 8+km)	May 2023 – Dec 2023
TEDx Event Host – TEDxAveLorne – Welcomed the audience, introduce guest speakers, and manage the days progression	Sept 2023
Orientation Events Leader – McGill's Campus Life and Engagement – Led events across campus and downtown for incoming students	Sept 2022 and 2023
VP Internal – McGill's Cell Biology Graduate Student Society – Planned regular events for students, managed social media, and organized meetings	Sept 2021 – June 2022