Gabriel Dall'Alba

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https://gdalba.github.io/

Education

UNIVERSITY OF BRITISH COLUBIA Vancouver, BC

Master of Science, Genome Science and Technology. April 2024

Recipient of Faculty of Science Graduate Award (for outstanding academic achievements)

UNIVERSIDADE DE CAXIAS DO SUL Caxias do Sul, RS, Brazil

Bachelor of Science, Biological Sciences. 2018

Recipient of Undergraduate Researcher Awards (2014 – 2018)

Experience

UNIVERSITY OF BRITISH COLUMBIA Vancouver, BC

Sessional Lecturer September 2024 – April 31

- Taught and mentored over 150 students, delivering engaging lectures and interactive learning experiences
- Built positive relationships through inclusive communication and responsive support
- Coordinated peer-led activities and managed teaching teams, demonstrating leadership and adaptability
- Developed clear, approachable materials to simplify complex topics

- **First-Year Seminar in Science (SCIE 113)**
  - Delivered the SCIE113 envisioned curriculum while implementing my own lessons on critical thinking, evidence-based reasoning, and interdisciplinary approaches to scientific questions
  - Designed (with support of course-wide guidelines) and conducted three 1-hour classes weekly, employing a blend of interactive, expository teaching and activity-based learning
  - Committed to student success through personalized, insightful feedback on assignments, with in-depth guidance on written essays and whole-class/1-on-1 office hours
  - Managed a range of student-related responsibilities outside of class, including conflict resolution,
  - absence coordination, and accessibility accommodations
  - Developed and integrated iClicker questions, think-pair-share exercises, and group activities to assess real-time understanding and encourage the practice of critical thinking
- **Thinking Like a Life Scientist (BIOL180)**
  - Designed and delivered weekly 3-Hour classes combining lecture techniques such as interactive presentations and hands-on learning activities to maximize student engagement and comprehension
  - Created and implemented iClicker questions, "think-pair-share" exercises, and collaborative group activities to assess real-time understanding and promote the practice of critical thinking
  - Designed and integrated in-class activities that promote active learning, encouraging students to move, discuss, and engage in evidence-based reasoning.
  - Crafted customized case studies and lessons to enrich course content and connect course objectives to real-world contexts.
  - Recognized and rewarded intellectual curiosity by celebrating students who demonstrated virtues like analytical rigor, epistemic humility, and clear science communication.

UNIVERSITY OF BRITISH COLUMBIA Vancouver, BC

Graduate Teaching Assistant September 2020 – August 2024

- More than 500 students were instructed. Acted as Coordinator on multiple occasions across courses
- Provided one-on-one support, tailoring communication to meet diverse learning needs
- Organized and delegated tasks, coordinated with instructors and team members
- Managed high-pressure situations calmly during exams and student challenges

UNIVERSITY OF BRITISH COLUMBIA Vancouver, BC
Graduate Research Assistant September 2020 – April 2024

- Collaborated on research projects requiring strong attention to detail, problem-solving, and time management
- Took initiative to learn and master the required skills for the research questions at the time
- Maintained organized records and data consistently for years

UNIVERSIDADE DE CAXIAS DO SUL Caxias do Sul, Brazil
Undergraduate Research Assistant & Private Consultant June 2014 – August 2020

- Delivered public talks, workshops, and outreach events on science and critical thinking
- Developed engaging content for social media and educational materials
- Mentored colleagues across various levels of hierarchy

Skills

Teaching: Evidence-based lectures, student-centered learning, Critical Thinking.
Soft Skills: Public speaking, mentoring, personalized feedback, conflict resolution.
Technology: Comfortable with POS systems, iClicker, Canvas, Microsoft Office, social media, Windows and Linux OS.
Languages: English (fluent), Portuguese (native)

Relevant Publications and Book Chapters

**** Titles of publications and book titles originally in Portuguese were translated to English.***

- **Dall'Alba, G** (2024). Toward comprehensive understanding of early metazoans: reannotation for
- enhanced completeness of the ctenophore Mnemiopsis leidyi genome. Masters Thesis, UBC.
- **Dall'Alba, G**, Casa, PL, et al. (2022). A survey of the biological data in a Big Data perspective. Big
- Data.
- Coelho R, **Dall'Alba G**, et al. (2020). Towards Algorithms for Automation of Postgenomic Data
- analyses: Bacillus subtilis Promoter Prediction with Artificial Neural Network. OMICS: A Journal of
- Integrative Biology.
- **Dall'Alba G**, et al. (2019). Bibliometric Study on Bioinformatics: A Survey in the Brazilian Library of
- Theses and Dissertations. NBC-Periódico Científico do Núcleo de Biociências.
- Schiavo M, **Dall'Alba G**, et al. (2019). Synthetic Biology and Metabolic Engineering for Developing
- Solutions in Biotechnology. In As Ciências Biológicas e da Saúde na Contemporaneidade 2. Atena
- Editora.
- **Dall'Alba, G**, et al. (2019). Analysis of the nucleotide content of Escherichia coli promoter sequences
- related to the alternative sigma factors. Journal of Molecular Recognition.
- **Dall'Alba, G**, et al. (2016). In silico analysis of Escherichia coli promoters recognized by sigma
- factors. SaBios.

Educationally Relevant Publications and Book Chapters

**** Titles of publications and book titles originally in Portuguese were translated to English.***

- Guzzo, GB, **Dall'Alba, G** (2025). When We Become the Seekers. Free Inquiry. 2025
- Guzzo, G.B., **Dall'Alba, G** (2024). Science does not have all the answers – And this is not a problem.
- Skeptical Inquirer.
- Elias DC, **Dall'Alba G** (2023). Nature's Imposters: Mimicry. In Science to be read in schools. Pages 75-83.
- Guzzo GB, **Dall'Alba G** (2022) LAATS, A.; SIEGEL, H. Teaching evolution in a creation nation.
- Chicago: The University of Chicago Press, 2016. Revista Conjectura.
- **Dall'Alba G** (2022). Science as a process: Critical Thinking and Scientific through the lens of
- Biotechnology. In Biotechnology in Schools: Educational Practices for Basic Education. Pages 39-62
- **Dall'Alba G**, Guzzo GB. (2022). The importance of qualified communication of ideas on science

- education. Revista Interdisciplinar de Ciência Aplicada
- Guzzo GB, **Dall'Alba G** (2021) Science as a process: epistemic lessons from the pandemic. ACTIO:
- Docência em Ciências.
- Guzzo GB, **Dall'Alba G** (2017) What is an ideal critical thinker expected to conclude about
- anthropogenic global warming?. Philosophical Inquiry in Education.
- **Dall'Alba G**, Guzzo GB, de Avila e Silva S. (2016). Science and Education: A Perspective of Didactic
- Transposition with Bioinformatics Concepts. International Journal for Infonomics.
- Guzzo GB, **Dall'Alba G** (2016). The Role of Educators in Desacralizing Ideas. Humanist Perspectives, Ottawa 196, Pages 8-11.

Relevant contributions to science and education

Workshops and Minicourses Delivered

**As instructor and coordinator*

- Discussing the Nature of Science through Case Studies (2021)
- Critical Thinking in the Teaching Practice for High School Teachers (2019)
- "Is this true?" Analyzing information and identifying Fake News on the Internet (2018)
- Logic Workshop for Elementary School students (2016)

Relevant Public Talks and Seminars

- Why can we trust science: The nature of scientific processes – Brazil (2021)
- Science as a Process: Why science is not only about results – Humanist Canada (2021)
- How to evaluate scientific information on the Internet? – Brazil (2017)
- The Role of Bioinformatics in Science and Education – CICE, Canada (2016)

Promotion of Science and Education

- Featured in a promotional video at UBC aimed at hiring international students (TBA – 2025).
- Judge for UBC Science Case Competition 2024 (2024)
- Science Communication project called "On the Paths of Reason" (Ongoing)
- Reviewer for E-book "Science in School: Bioinformatics Practices for High School (2023)
- Preface for E-book "Science to be Read in Schools" (2023)
- Interview for UBC Bio News "Teaching Spotlight: Getting to Know Diverse Scientists in BIOL 336 (2022)
- Preface for E-book "Biotechnology in Schools: Pedagogical Practices for Basic Education" (2022)
- Editor of E-book "Bioinformatics: Computational Context and Applications" (2020)
- Preface for E-book "Bioinformatics: Computational Context and Applications" (2020)
- Assistance in the creation of the Academic League of Science Communication (2019)
- Organization of major event "ENZITEC 2016 - XII Seminário Brasileiro de Tecnologia Enzimática." (2016)

References

- Prof. Dr. Marcia Graves
  Associate Professor of Teaching, Department of Microbiology and Immunity, University of British Columbia, **Supervisor (Sessional Lecturer role – SCIE 113)**
  Email: marcia.graves@ubc.ca

- Prof. Dr. Blaire Steinwand
  Associate Professor of Teaching, Department of Zoology, University of British Columbia, **Former Supervisor (Sessional Lecturer role – BIOL 180)**
  Email: blaire.steinwand@ubc.ca

- Prof. Dr. Pamela Kalas
  Associate Head of the Biology Program at UBC, **Current Supervisor (Sessional Lecturer role)**
  Email: kalas@zoology.ubc.ca