

Anna Bramucci

PH.D · M.Sc

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Summary

I am an experienced and flexible project manager with a strong foundation in scientific communications and global outreach. Alongside managing cross-functional teams, budgets, timelines, and client relationships, I have led high-impact communication efforts that strengthened collaboration across large international networks. My work includes designing clear messaging for diverse audiences, coordinating outreach with global research partners, and facilitating cross-team knowledge sharing. I have also developed project management tools to track project status across multiple team members and committees, delivered tutorials introducing new methods for complex data analysis, and organized a monthly seminar series for the Climate Change Cluster in Australia.

Skills

Communications: led high-level scientific communications for a global genomics consortium, including preparing SOPs, regulatory guidance, sampling and importation permits (cultures, dangerous goods, chemicals), and export permits for microbial and algal isolates; crafted clear, consistent, and accessible scientific messaging for diverse international audiences; developed and edited the EBP global newsletter, translating complex research updates into compelling narratives that connected 61+ affiliated projects worldwide; authored academic materials and outward-facing content; delivered professional presentations and trainings; coordinated communication pipelines and facilitated cross-institutional meetings; produced teaching materials, tutorials, and partner toolkits; and contributed to peer review, quality assurance, and the strategic communication goals of the consortium.

Field work: Bamfield marine sciences center, Kluane Lake Research Station, open ocean Port Hacking sampling and monitoring, Strait of Georgia, Hecate Strait, Antarctica Dry Valleys

Computational: data analysis, High Performance Computing, *R Studio*, *Anvi'o*, Python, bioinformatics, coding analytical pipelines, Adobe Creative Suite

Laboratory: developing protocols, water quality assessment, DNA/RNA extraction, PCR, Illumina NGS, whole genome sequencing/analysis, metagenome sequencing/analysis

Culturing: algal/bacterial isolation, purification, cultivation, microscopy, and characterization

Extra Qualifications: Advanced PADI diving certificate, standard first aid certificate, driving licence

Work Experience

Earth BioGenome Project

Vancouver, Canada

COMMUNICATIONS DIRECTOR

July 2024 – November 2025

- expanded global outreach by engaging new biodiversity genomics initiatives worldwide, strengthening and diversifying the EBP network of sequencing efforts
- led EBP's external communications across newsletter, LinkedIn, Instagram, X/Twitter, and BlueSky, increasing engagement, improving scientific messaging, and elevating project visibility
- developed strategic communication campaigns that highlighted genome sequencing milestones, research breakthroughs, and global partnerships across 61+ affiliated projects
- built a comprehensive project-tracking system enabling transparent oversight of EBP projects for the Executive Council and Membership Committee
- coordinated content and data pipelines between EBP, CBP, and VGP teams, assisting with genome downloads, metadata curation, and updates for public dashboards
- collaborated with GoaT developers to streamline workflows, improve data accuracy, and enhance the end-user experience for genome assembly tracking
- produced technical tutorials and documentation to support global partners in using Genomes on a Tree (GoaT), uploading data, and identifying duplicates
- amplified scientific storytelling by sourcing quotes, species highlights, and field updates from international partners, strengthening EBP's public-facing narratives
- cultivated new partnerships with botanical gardens, museums, Indigenous-led programs, and genome sequencing centers to expand sampling and collaboration opportunities

Climate Change Cluster

Sydney, Australia

POSTDOCTORAL FELLOW

Sept. 2018 - Mar. 2022

- managed student projects lead and co-managed multiple scientific research projects from inception to completion, ensuring they completed objectives, maintained quality, met timelines, managed budgets, and ensured publications or reports were of high-quality and submitted
- lead the development and testing of novel low-input DNA extraction techniques, published (Bramucci et al., 2021)
- managed environmental monitoring and chemical testing of Port Hacking open ocean site, monthly
- lead the algal bacterial interaction project single cell isolation of algal cultures, processed bacterial and algal metagenomes, produced high quality genomes using anvi'o, publication submitted

Bamfield Field School

PH.D. RESEARCH ASSISTANT

Bamfield, Victoria Island

summer 2016 and summer 2017

- supervised students: design, layout, and completion of field work and microbial lab projects including isolation and identification
- monitoring, sampling, and microbial isolation from coastal ecosystems

Deep-Sea Sponge Expeditions

PH.D. RESEARCH ASSISTANT

Bamfield, Victoria Island

summer 2014 and summer 2015

- experienced field researcher on two deep sea sponge expeditions on the Strait of Georgia 2015 (ship time: 20 d) and Hecate Strait 2014 (ship time: 20 d)
- sampling and filtration water column, deep sea sponges effluent, surrounding water, and sediments for microbial identification and deep sequencing

Stream and ice-covered lakes

RESEARCH ASSISTANT

Antarctica, Dry Valley

summer 2008 and summer 2009

- two summer seasons: sampling dry valley ice-covered lakes (field time: 4 months) and glacial streams (field time: 4 months)
- sampling and filtration water column, chemical panels of water, filtration of replicate samples for biological and chemical analyses
- analysis of chemical and biological samples after the field season completed

Education

PhD, Ecology

UNIVERSITY OF ALBERTA

Sept. 2012 - Jan. 2018

Edmonton, Canada

- **Thesis:** Exploring the pathogenic interaction of marine roseobacter *Phaeobacter inhibens* and its coccolithophore host *Emiliana huxleyi*

MSc, Microbiology and Biotechnology

UNIVERSITY OF ALBERTA

Sept. 2009 - Oct. 2012

Edmonton, Canada

- **Thesis:** Structure and Stability of Microbial Assemblages in Seasonal Lake Ice: Miquelon Lake, Alberta, Canada

Publications

Authored 21 scientific articles (4 first author), 1 book chapter, 2 genome announcements, 1 visual journal method
Scopus: h-index 9, 245 citations · Google Scholar: h-index 10, 382 citations (as of April 2024)

SELECTED WORKS

Raina JB, ...**Bramucci AR**, et al. (2022) Chemotaxis shapes the microscale organization of the ocean's microbiome. *Nature*.

Larsson ME, **Bramucci AR**, et al. (2022) Mucospheres produced by a mixotrophic protist impact ocean carbon cycling. *Nature Communications*.

O'Brien J, McParland E, **Bramucci AR**, et al. (2022) Biogeographical and seasonal dynamics of the marine Roseobacter community and ecological links to DMSP-producing phytoplankton. *ISME Comms*.

Bramucci AR, et al. (2021). Microvolume DNA Extraction Methods for Microscale Amplicon and Metagenomic Studies. *ISME Comms*.

Presentations

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| 2021 | SoLS Seminar Series , Delving into the algal microbial consortia of Port Hacking | Sydney, Australia |
| 2021 | JAMS Seminar Series , Algal microbial consortia: generalists or specialists? | Sydney, Australia |
| 2020 | IMOS National Reference Station (NRS) Seminar Series , 20 years of IMSO Bacteria and Archaea sequences | Sydney, Australia |
| 2018 | C3 Seminar Series , <i>Phaeobacter inhibens</i> pathogenesis: how to kill an algal host | Sydney, Australia |
| 2017 | Ph.D. Research Symposium , <i>Phaeobacter inhibens</i> pathogenesis of <i>Emiliana huxleyi</i> | Edmonton, Canada |
| 2011 | CBAR Research Symposium , Microbial Dynamics Identified in the Subglacial Waters of Six Glaciers of the SW Yukon Territory, Canada | Edmonton, Canada |
| 2011 | Polar Research Day , Diversity of Extremophiles identified in Subglacial Waters | Edmonton, Canada |

Teaching

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| 2016 | General Microbiology MICRB265 , Microbial Diversity and Interactions | Edmonton, Alberta |
| 2016 | Marine Biology BIOL361 , Ocean Productivity and the Microbial Assemblage | Edmonton, Alberta |
| 2013 | Microbiology Seminar MICRO606 , Iron Fertilization—Moving Forward in a Sea of Uncertainty | Edmonton, Alberta |

Team Engagement

Sydney, Australia

R STUDIO AND DADA2 TUTORIALS

Jan 2020 - Jan 2022

- DADA2 tutorials on real life big datasets
- troubleshooting and in-depth quality control insights provided on an individual basis

Climate Change Cluster Seminar Series

Sydney, Australia

ORGANIZED

Sep. 2020 - Mar. 2021

- invited visiting speakers to come to monthly seminar series
- organized catering and locations and advertising for the seminar series