

# Jade Shivak

jade.shivak@botany.ubc.ca | jadeshivak.com | University of British Columbia

---

## Education

### M.SC. BOTANY

FEBRUARY 2023

University of British Columbia, Vancouver, BC

Thesis: De Novo Assembly of a Zoanthid Transcriptome for the Study of Corallicolids

Supervisor: Patrick Keeling

### B.SC. HONOURS IN BIOLOGY WITH DISTINCTION

APRIL 2021

University of British Columbia, Vancouver, BC

Thesis: Marine Midge Microbiome

Supervisor: Patrick Keeling

## Research Experience

### GRADUATE RESEARCH ASSISTANT

MAY 2020 - PRESENT

Keeling Lab, UBC

- Generated, annotated, and analyzed a *de novo* transcriptome assembly
- Maintained aquariums containing tropical anthozoans
- Prepared, sectioned, and imaged coral tissue using Transmission Electron Microscopy

### RESEARCH ASSISTANT

MAY 2020 - AUGUST 2021

Keeling Lab, UBC

- Implemented microbiome analysis in QIIME2 and R on amplicon sequence data
- Performed data analysis and produced figures for publication using statistical software
- Collected and screened local sea anemones for apicomplexan parasites using DNA extractions, PCR, and gel electrophoresis

### RESEARCH ASSISTANT

SEPTEMBER 2018 - APRIL 2020

Martone Lab, UBC

- Pressed, accessioned, and measured herbarium specimens
- Helped train younger students in sterile technique and culture maintenance
- Collected and identified specimens in an intertidal species richness survey

## Awards

### SUMMER UNDERGRADUATE RESEARCH EXPERIENCE AWARD

MAY 2020

University of British Columbia

- \$3000 competitive award to subsidize undergraduate student's work on research projects with an eligible professor in the Faculty of Science

## Publications

Schipper, S.R., **Shivak, J.P.**, Hind, K.R., Hughey, J.R., Gabrielson, P.W., Martone, P.T. (In Press)  
Reinstatement of *Corallina chilensis* (Corallinaceae, Rhodophyta) based on DNA sequencing of  
the holotype collected by Darwin. *Phycologia*.

Wade, R. M., Gabrielson, P. W., Hind, K. R., **Shivak, J.**, Hughey, J. R., Ohtsu, S., ... & Martone, P. T.  
(2022). Resolving some of the earliest names for *Corallina* species (Corallinales, Rhodophyta) in  
the North Pacific by sequencing type specimens and describing the cryptic *C. hakodatensis* sp.  
nov. and *C. parva* sp. nov. *Journal of Phycology*, 59: 221-235.

Little, M., George, E. E., Arts, M. G., **Shivak, J.**, Benler, S., Huckeba, J., ... & Roach, T. N. (2021). Three-  
dimensional molecular cartography of the caribbean reef-building coral *Orbicella faveolata*.  
*Frontiers in Marine Science*, 8:627724.

## Conferences

### INTERNATIONAL SOCIETY OF PROTISTOLOGISTS JULY 2021

#### Presentation

**Shivak, J.** (2021). The phylogeny and microbial composition of two novel marine midges and their  
benthic habitat. *International Society of Protistologists*, 53.

### 12TH INTERNATIONAL PHYCOLOGICAL CONGRESS MAY 2021

#### Presentation

Schipper, S.R., Gabrielson, P.W., **Shivak, J.P.**, Hughey, J.R., Martone, P.T. (2021). *Corallina officinalis*  
var. *chilensis* (Corallinales Rhodophyta) Not a “Variety”, but a Congeneric Species Within a Puzzling  
Genus. *12th International Phycological Congress*, 67.

### MULTIDISCIPLINARY UNDERGRADUATE RESEARCH CONFERENCE MAY 2020

#### Presentation

**Shivak, J.** (2020). Morphological Differentiation of Cryptic Coralline Algae. *Multidisciplinary  
Undergraduate Research Conference*, 251.

### SOCIETY FOR THE ADVANCEMENT OF BIOLOGY EDUCATION JULY 2018

#### Poster

Boyd, M., Chow, E.K., Daliaho, G., Fazal, Z., McLaren, D., Subramanian, S., **Shivak, J.**, Kalas, P. (2021).  
What do alleles look like (in a textbook?). *Society for the Advancement of Biology Education*.

## Certificates

- Chemical Safety Course, University of British Columbia November 2021
- Biological Safety Course, University of British Columbia January 2019
- Rescue Diver, PADI August 2015
- Advanced Open Water Diver, PADI August 2015

## Teaching Experience

### TEACHING ASSISTANT

**SEPTEMBER 2021 - DECEMBER 2021**

University of British Columbia, BIOL 341: Introductory Molecular Biology Laboratory

- Led lab sections of upper-level students learning introductory molecular biology techniques such as restriction analysis, transformation of recombinant plasmids, and bioinformatic analysis
- Held office hours, delivered lectures, marked assignments, and monitored discussion boards

### GUEST LECTURER

**OCTOBER 2019**

University of British Columbia, BIOL 121: Genetics, Evolution, and Ecology

- Prepared and delivered a genetics lecture to a first-year biology class of over 150 students
- Utilized iClicker technology, document camera, and PowerPoint presentation

## Service and Outreach

### CHARITY RUN FUNDRAISER

**SEPTEMBER 2019 - PRESENT**

Terry Fox Foundation

- Trained for the annual Terry Fox run and fundraised over \$1000 for cancer research

### GUEST SCIENCE EDUCATOR

**MARCH 2022**

Let's Talk Science

- Prepared and delivered a lesson and interactive microscopy workshop on coral symbionts and conservation for K-12 students visiting the Beaty Biodiversity Museum

### CHAIR OF FUNDRAISING COMMITTEE

**SEPTEMBER 2018 - JANUARY 2019**

Circle K International (Kiwanis Initiative), Vancouver, BC

- Conducted meetings, coordinated with volunteers, and organized fundraisers for the BC Children's Hospital and the Bloom group in Vancouver

## References

Available upon request.