

# JAY MATSUSHIBA

ENVIRONMENT | EDUCATION | GIS

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## SKILLS

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- ArcGIS tools, including ArcMap, ArcCatalog and ArcGIS Online
- IDRISI TerrSet
- QGIS
- Adobe PhotoShop
- GIMP
- Field techniques, including use of quadrats, transects, GPS tools

## CERTIFICATES

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- Red Cross Wilderness First Aid
- WHMIS 1988 & 2015 Training
- PADI Open Water Diver
- Transport Canada Pleasure Craft Operator Card
- Class 5 Driver's License

## EDUCATION

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### Simon Fraser University

*BSc Biology, Spatial Information Systems Certificate*

Sept. 2016 - Present

- IB Excellence Scholarship Award (\$7500)
- BC Achievement Scholarship Award (\$1250)
- Dean's Honour Roll

### Sir Winston Churchill Secondary

*International Baccalaureate*

Sept. 2014 – Jun. 2016

- Grade 11 and 12 Honour Roll

## LANGUAGES

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- Fluency in English and Japanese

## WORK EXPERIENCE

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### Snowshoe Guide | Mount Seymour

**Oct. 2018 – April 2018**

- Lead public and private tours for range of audiences in Mount Seymour Provincial Park
- Interpreted local flora and fauna species, as well as the importance of Seymour watershed
- Taught the '10 Essentials' and other basic wilderness skills
- Produced educational programming for school groups

### Instructor | Richmond Nature Park

**Feb. 2018 – Present**

- Facilitated educational programs at the Richmond Nature Park
- Researched local wildlife species for the purpose of creating educational programs
- Created educational programming focused around indigenous species and environmental issues

### Youth Program Facilitator | Metro Vancouver

**Jun. 2017 - Present**

- Facilitated the Metro Vancouver Sustainability Toolbox program
- Lead mentorship group of students to complete sustainability projects in local communities
- Designed workshops and researched environmental issues to educate high school students

### Educator | Ocean Wise

**Feb. 2017 – Present**

- Created engaging and educational experiences for sleepover, birthday party and day camps program
- Used props and interpretive techniques in public galleries and Wet Lab classrooms
- Conducted research in order to create programming focused around marine biology and ocean conservation

## PROJECTS

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### Promenades sur l'eau

- Organized first ever fashion show at the Vancouver Aquarium
- In a team of 3 organizers, managed over 40 volunteers, 30 models, 6 designers and multiple departments of Ocean Wise
- Acquired \$1500 in funding for event through #RisingYouth grants
- Sold out the event with over 120 attendees

### Dancing by the Sea

- Organized overnight youth event to promote ocean literacy
- Arranged field trip at the Vancouver Aquarium, including experiential activities in the Wet Lab facilities
- Conducted a shoreline cleanup along Stanley Park sea wall
- Invited David Suzuki Foundation Elders to provide workshop on storytelling

### Global Coral Reef Habitat Suitability | Geographic Information Science II

- Produced model that forecasts global coral reef habitat suitability using multi-criteria evaluation in IDRISI TerrSet
- Model forecasts changes in global coral reef distribution based on data from NASA Earth Observations and research on coral reef habitat needs
- Acquired perfect mark of 20/20 for this final project, contributing to a final grade of A+ in the course

## VOLUNTEER

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### Ocean Bridge | Ocean Wise

**March 2018 – January 2019**

- Participated in a wilderness expedition to Haida Gwaii
- Learned about indigenous rights and ocean conservation issues
- Direct service through remote shoreline cleanups and public outreach
- Created community service projects, including an Ocean Literacy Weekend camp and a Fashion Show

### Informal Education Program Facilitator | Vancouver Aquarium

**Sept. 2016 – Dec. 2016**

- Produced learning experiences for home-schooled children
- Incorporated marine biology and conservation themes in lesson plans
- Researched marine biology and conservation topics for educational programs

### Gallery Educator | Vancouver Aquarium

**Sept. 2014 – Present**

- Worked with staff and volunteers to provide engaging experiences for visitors
- Interpreted displays, live animals, props and games for visitors
- Educated the public on the animals, environmental issues and conservation efforts.

### Peer Leader | Catching the Spirit

**May 2014 – Aug. 2015**

- Planned and lead 3-day overnight camps for youth ages 12 to 18
- Participated in sustainability projects, such as organic gardening and fence building
- Researched environmental issues and educated participants on sustainable living during the camp

References available upon request.