

JAY H. MATSUSHIBA

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Experience

Spatial Data Research Assistant

June 2021 - Present

Dulvy Lab

- GIS technician for the Dulvy Lab, providing spatial data visualization and maps to be published in academic literature
- Reviewed literature on spatial data trends of shark, ray, and chimera species distribution
- Supervised by Dr. Nicholas Dulvy, Professor

Research Assistant

Oct 2020 - Dec 2023

Spatial Interface Research Lab

- Applied and received the \$75,000 Mitacs Accelerate grant to fund position
- Utilized localization and mapping algorithms with LiDAR generated datasets
- Designed user experience and interfaces for 3D spatial data in VR/AR and conventional displays
- Contributed to the data strategy for cutting-edge off road vehicle development
- Supervised by Dr. Nicholas Hedley, Associate Professor

Co-founder

Jan 2020 - May 2022

Above Atlantis Consulting Inc.

- Founded Above Atlantis to address the inaccessibility of flood risk information to Canadian communities
- Focus on 3D visualizations and intuitive information presentation to public
- Conducted over 100 informational interviews with professionals and stakeholders in flood mitigation industry
- Secured over \$55,000 in funding through Mitacs and Career Ready grants
- Finalist at the Aquahacking BC 2020 competition, received \$10,000 prize

Marine Spatial Planning Assistant

Sep 2020 - Apr 2021

Fisheries and Oceans Canada

- Conducted literature review of existing Marine Spatial Plans (MSP) for application on Pacific coast
- Analyzed and visualized fisheries data for inclusion into MSP Web Atlas using ArcGIS and Python
- Built Stakeholder Engagement Tracking application using Microsoft Power Apps

Education

M.Sc. Geography

2022 - Present

Simon Fraser University

B.Sc. Biological Sciences
Sp. in Ecology, Evolution, and Conservation
Simon Fraser University

Completed 2022

Geographic Information Systems Certificate
Simon Fraser University

Completed 2020

Select Publications

Sherman, S., Simpfendorfer, C., Pacoureaux, N., **Matsushiba, J. H.**, Yan, H., Walls, R., Rigby, C., VanderWright, W., Jabado, R., Pollom, R., Carlson, J., Charvet, P., Ali, A., Fahmi, [Fahmi], Cheok, J., Derrick, D., Herman, K., Finucci, B., Eddy, T., & Dulvy, N. (2023). Half a century of rising extinction risk of coral reef sharks and rays. *Nature Communications*, 14.
<https://doi.org/10.1038/s41467-022-35091-x>

Sherman, C. S., Digel, E. D., Zubick, P., Eged, J., Haque, A. B., **Matsushiba, J. H.**, Simpfendorfer, C. A., Sant, G., & Dulvy, N. K. (2023). High overexploitation risk due to management shortfall in highly traded requiem sharks. *Conservation Letters*, e12940.
<https://doi.org/10.1111/conl.12940>

Pacoureaux, N., Carlson, J., Kindsvater, H., Rigby, C., Winker, H., Simpfendorfer, C., Charvet, P., Pollom, R., Barreto, R., Sherman, S., Talwar, B., Skerritt, D., Sumaila, R., **Matsushiba, J. H.**, VanderWright, W., Yan, H., & Dulvy, N. (2023). Conservation successes and challenges for wide-ranging sharks and rays. *Proceedings of the National Academy of Sciences*, 120, e2216891120. <https://doi.org/10.1073/pnas.2216891120>

Sherman, S., Simpfendorfer, C., Haque, A., Digel, E., Zubick, P., Eged, J., **Matsushiba, J. H.**, Sant, G., & Dulvy, N. (2022). *Guitarfishes are plucked: Undermanaged in global fisheries despite declining populations and high volume of unreported international trade*.
<https://doi.org/10.1101/2022.10.05.510982>

Select Awards / Grants

Lab2Market Grant 2024	\$15,000
Mitacs Accelerate Grant 2022	\$75,000
BC Nature Rene Savenye Scholarship 2021	\$2,000
Nature Vancouver Hugh Hamilton Scholarship 2021	\$5,000
Mitacs eAccelerate Grant 2020	\$45,000
Mitacs-Innovate BC Program Prize 2020	\$3,750
BC Aquahacking Challenge Finalist Prize 2020	\$10,000