Stefano **Mezzini**

Intermediate Computational Biologist

Poisson Consulting Ltd

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Background

Stefano Mezzini is an Intermediate Computational Biologist with Poisson Consulting who specializes in time series modeling, spatial ecology, animal movement behavior, and (paleo)limnology, with a focus on Generalized Additive Models. Prior to joining Poisson in 2025, he mainly worked as a private statistical consultant for various organizations and as a research data consultant with the University of British Columbia Okanagan.

Education

2026 (ant.)	PhD Biology	*UBCO*
2021	BSc Biology (Hons., Co-op)	*U of R*
2021	BSc Statistics	*U of R*

Career

2025-26	Intermediate Computational Biologist	*Poisson Consulting*
2026	Course Instructor	*Physalia Courses*
2026	Course Instructor	*CMI*
2023-26	Statistical Consultant	*Field Engine*
2023-25	Research Data Consultant	*UBCO*
2024	Sessional Instructor	*UBCO*
2023	Remote Sensing Instructor	*Animove*
2018-21	Data Analyst	*IECS*
2018	Water Quality Analyst	*ECCC*

Example Projects

River Temperature Modeling (2025 - ongoing)

Data management, model design, data analysis, and report writing to estimate daily river water temperature as a function of air temperature, across a large network of streams.

Nutrient Restoration Data Sampling (2026 - ongoing)

Data management, model design, data analysis, and report writing to (1) provide a model for converting historical zooplankton samples taken with a Clarke-Bumpus net to equivalent samples taken with a Wisconsin net, and (2) provide recommendations on the ideal sampling protocol to maximize comparability with historical data.

Key Publications

1. Mezzini, S., Fleming, C. H., Medici, E. P., & Noonan, M. J. (2025). How resource abundance and resource stochasticity affect organisms' range sizes. *Movement Ecology*, *13*(1), 20. https://doi.org/10.1186/s40462-025-00546-5
2. Marcus, R., Mezzini, S., Desai, D., & Noonan, M. J. (2026). Environmental variability shapes biodiversity and protected area priorities in Canada. *Communications Earth & Environment*, *7*(1), 146. https://doi.org/10.1038/s43247-025-03166-4
3. DeNicola, V., Mezzini, S., Bursać, P., Minasandra, P., & Cagnacci, F. (2025). Effects of vasectomy on breeding-related movement and activity in free-ranging white-tailed deer. *Movement Ecology*, *13*(1), 34. https://doi.org/10.1186/s40462-025-00554-5
4. DeNicola, V., Mezzini, S., & Cagnacci, F. (2025). Monitoring the effects of ovariectomy on seasonal movement behavior in suburban female white-tailed deer using internet of things-enabled devices. *Wildlife Biology*, e01512. https://doi.org/10.1002/wlb3.01512

5. DeNicola, V. L., Mezzini, S., Cagnacci, F., & Fleming, C. H. (2025). *Are your data too coarse for speed estimation? Diffusion rates as an alternative measure of animal movement*. Ecology. https://doi.org/10.1101/2025.07.17.665364
6. Gaynor, K. M., Wooster, E. I. F., Martinig, A. R., Green, J. R., Chhen, A., Cuadros, S., Gill, R., Khanal, G., Love, N., Marcus, R., Mills, C. L., Wrensford, K., Wright, N. S., Mezzini, S., Marley, J., & Noonan, M. J. (2025). The Human Shield Hypothesis: Does Predator Avoidance of Humans Create Refuges for Prey? *Ecology Letters*, *28*(6), e70138. https://doi.org/10.1111/ele.70138
7. Medici, E. P., Mezzini, S., Fleming, C. H., Calabrese, J. M., & Noonan, M. J. (2022). Movement ecology of vulnerable lowland tapirs between areas of varying human disturbance. *Movement Ecology*, *10*(1), 14. https://doi.org/10.1186/s40462-022-00313-w
8. Gushulak, C. A. C., Mezzini, S., Moir, K. E., Simpson, G. L., Bunting, L., Wissel, B., Engstrom, D. R., Laird, K. R., St. Amand, A., Cumming, B. F., & Leavitt, P. R. (2024). Impacts of a century of land-use change on the eutrophication of large, shallow, prairie Lake Manitoba in relation to adjacent Lake Winnipeg (Manitoba, Canada). *Freshwater Biology*, *69*(1), 47–63. https://doi.org/10.1111/fwb.14192
9. Gushulak, C. A. C., Chegoonian, A. M., Wolfe, J., Gray, K., Mezzini, S., Wissel, B., Hann, B., Baulch, H. M., Finlay, K., & Leavitt, P. R. (2024). Impacts of hydrologic management on the eutrophication of shallow lakes in an intensive agricultural landscape (Saskatchewan, Canada). *Freshwater Biology*, *69*(7), 984–1000. https://doi.org/10.1111/fwb.14260