

farestry co-op university of british columbia

LAB & FIELD ASSISTANT

at UBC's Tree Ring Lab in collaboration with PhD Candidate Julie Nielsen from SFU's School of Resource & Environmental Management and the Nanwakolas Council.



UBC Tree Ring Lab

The Tree Ring Lab at UBC is overseen by Dr. Lori Daniels where an ever growing team of passionate individuals unravel the dynamic history of forests, ecological disturbances and climate change through the science of dendrochronology.

Julie Nielsen

Julie is a PhD candidate at Simon
Fraser University working in collaboration with
the UBC Tree Ring Lab on this chapter of her
thesis which looks at the frequency and
magnitude of heartwood decay in relation to site
conditions and age of western redcedars on
Vancouver Island.

GUARDIANS OF MONUMENTAL CEDAR

The initiative this study contributes to is the Large Cultural Cedar Inventory being carried out by the Nanwakolas Council. To learn more of the project follow the QR code to watch their video.

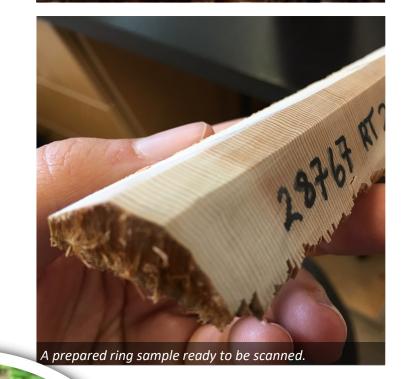


Nanwakolas, "a place we go to find agreement" www.nanwakolas.com





SFU



THE POSITION

- **FIELD WORK:** Collect data from post-harvest trees on Vancouver Island.
- **LAB WORK:** Analyse data to estimate percent decay, fungal decay species, and age of trees.

A CONTRIBUTION TO ...

- research to protect Canadian old-growth forests.
- surveys of monumental cedars for cultural use.
- methods to **predict percent decay** in pre-harvest cedars > can be applied to **keep foresters safe** during logging.

ETHNOBIOLOGY

"[T]he scientific study of dynamic relationships among people, biota, and environments."

—Society of **Ethnobiology.org**

Cedars play a keystone role in the Pacific Northwest both ecologically and in cultural importance. Better understanding the physiology of these trees and their ecosystems in conjunction with societal and cultural benefits will strengthen our relationship with the trees and the services they provide.

AWKNOWLEDGEMENTS

Thank you to **Dr. David Jones**, my mentor through the Tri-Mentoring Program who connected me to this opportunity. A huge thank you to **Dr. Lori Daniels** and **Julie Nielsen** for allowing this co-op and this research continue on in a directed studies! Thank you **Jordan Benner**, Regional Forest Advisor at Nanwakolas Council, **Jack Reynolds**, Operations Planner at Western Forest Products, and especially **Alexandra Thomas**, my field assistant and friend, who made this summer co-op possible.





From left to right: a lucky find: the fungi responsible for 'brown cubical butt rot" in western redcedar; in the tree stump collecting data.



DIRECTED STUDIES

THE PROJECT LIVES ON