

Yoav Daniel Bar-Ness

ydbarness@gmail.com

Katwaria Sarai, Delhi, India
St. Petersburg, Florida / Seattle, Wash. USA
Hobart, Tasmania, Australia

<http://www.treeoctopus.net>



Education:

▶ Fulbright Scholar, USA Department of State, Delhi, India

Landmark Trees of India 2008-2009

International independent research scholarship. Production of guidebook and environmental education resource concerning interesting, sacred, notable, and landmark trees throughout India.

More information at <http://www.treeoctopus.net/landmarktrees.html>

▶ School of Geography & Environmental Studies,

University of Tasmania of Tasmania, Hobart, Australia

Masters of Science (research) in Environmental Studies 2002-2005

Crown structure and canopy arthropods of *Eucalyptus* forests

More information at <http://www.geog.utas.edu.au/yoav>

- | | |
|---|---|
| -Project management and implementation skills | -Immersion in Australian forest management issues |
| -Leadership and communication skills for complex & dangerous situations | -Teaching data collection skills, safety at heights |
| -Rigging, climbing, and working in the treetops of the world's tallest flowering plants | -Patience and good humor when faced with daunting tasks |
| -Surveying, measurement and 3-d computer illustration of forest trees | -Invertebrate trapping protocols, trap design |
| -Experience with museums and insect collections | - Arthropod biodiversity research and statistics |
| | -Multivariate statistics and literature search |
| | -WWW design, and data presentation |

▶ College of Forest Resources, University of Washington, Seattle, USA

Bachelor of Science in Wildlife Sciences 1997-2001

Minor in Conservation of Wildland Resources

Minor in Quantitative Science (Statistics)

Minor in Botany

Dean's High Scholarship list. Xi Sigma Pi Forestry Honors Society.

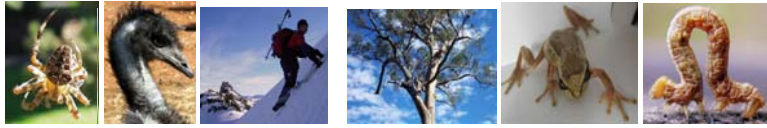
- | | |
|--|--|
| -Live animal handling, radio tracking, field surveys | -Conservation biology issues and strategies, human impact on natural populations |
| -Animal behavior, sociobiological and genetic theory | -Exposure to botanical gardens, zoological gardens, aquariums, and museums |
| -Wildlife ecology, population dynamics, management | -Basic and advanced statistics for wildlife populations |
| -Forest ecology, silviculture, management, | -Senior thesis on crow social behaviour |
| -Landscape management and GIS | |

▶ Wilderness Medical Institute, National Outdoor Leadership School, Opal

Creek Ancient Forest Center, Oregon

Wilderness First Responder Certificate 2006

- | | |
|--|--|
| -Medical field training for remote areas | -Tied for first-in-class on written exam |
|--|--|



Experiences:

- ▶ **The Nature Conservancy, Forest Ecology Project Lead, Ellsworth Creek Preserve:** Established research project surveying canopy arthropods in last remnants of coastal spruce rainforest. Fieldwork collecting arthropods in treetops and ground levels. Lab work and arthropod archival at Supervision of four interns. Remote area access. At Astoria, Oregon, TNC office, and Oregon State University Arthropod Collection.
- ▶ **Scientist-in-Residence, Islandwood Environmental Education Center:** Short-term residency teaching forest ecology to elementary school students. On Bainbridge Island, WA, March 2007.
<http://www.islandwood.org/studies/science/scientists.php>
- ▶ **Pollen and Seed Paleoecology Laboratory, University of Washington, Palynology Lab Technician:** Preparation of fossilized Quaternary pollen samples. Web page design for Dr. Estella Leopold. Through U. of Washington Biology, Seattle, WA, northern autumn 2005- ongoing.
<http://protist.biology.washington.edu/eleopold>
- ▶ **Center for Conservation Biology, Northern Spotted Owl Vehicle Disturbance Experiment - Crew Leader:** Led interns in surveying and sampling of owls. Responsibilities included logistics, safety, field training, daily coordination. Extensive GIS, GPS, overland navigation, behavioral observation, data management. Fieldwork in record-breaking rainy/snowy spring and record-breaking heat wave summer. Liaised with US Forest Service, US Fish & Wildlife. In Trinity Mts, CA. UW Center for Conservation Biology, Seattle, WA, 2006.
<http://www.ohvstudy.com>
- ▶ **Cross-country travel in North America:** Diagonal transects from NW corner of Washington State to SE corner of Florida, and back again. Exposure to coast, mountain, desert, city, prairie and forests on a continental scale. Extensive natural landscape appreciation, intense metropolitan experiences, and repeated problem solving skills. Surrounding New Years 2006.
- ▶ **International Canopy Network Lab - Consultant, 3-d Tree Structural Metadata Archival:** Synthesis and archival of Tasmanian canopy research data and resources. Formal computer database design. Through Evergreen State College, Olympia, WA, autumn 2005.
<http://scidb.evergreen.edu/databank/studycenter/ydbtasmania>
- ▶ **Idaho Department of Fish and Game - Northern Goshawk Surveyor:** Landscape scale audio-playback detections of forest raptor in Northern Idaho. In conjunction with US Forest Service survey efforts, bird identification and observation, navigation through untracked forests and mountains country, exposure to management issues associated with a species of management concern, team skills in remote areas. At the Clearwater National Forest, northern summer 2005.
http://avianscience.dbs.umt.edu/research_pub/html/methMan.htm

- ▶ **University of Tasmania - Raven Nest Camera Monitoring:** Treeclimbing to set raven nest cameras. Monitoring of baby ravens for study of breeding and social habits. For U. of Tas. Zoology, Hobart, TAS, southern spring 2004.
- ▶ **University of Tasmania - Moth Biodiversity Insect Technician:** Forest insect biodiversity surveys using light-attraction traps. For U. of Tas. Geography & Environmental Studies, Hobart, TAS, southern spring 2004.
- ▶ **Cross-country travel across Australia's Southern Seaboard:** From Perth, SW corner of Western Australia, to Melbourne, SE Victoria. Treeclimbing in the karri and tingle forests, site visits to thrombolite living fossils, Margaret River Caves, Flinder's Ranges and Naracoorte paleo-zoological sites. Early 2003.
- ▶ **Cross-country travel down Australia's Pacific Coast:** From Cape Tribulation, NE Queensland, down the coast to SE Victoria. Including Canopy Conference in Cairns, snorkelling on Barrier Reef, volunteer experience at Cape Tribulation Bat House Field Research Station, site visits to Undara and Capricorn Caves, and treeclimbing experience in tropical Australian Daintree forests. Mid- 2002.
- ▶ **International Canopy Network Lab—Treetop Mapping Intern.** Rope techniques for accessing forest canopy at Mt. Rainier National Park and Wind River Experimental Forest. Measurements of branch structure of conifers, study across forest age gradient. Tree physiology, climbing techniques, surveying, team skills, remote field conditions. Through Evergreen State College, Olympia, WA, northern summer 2001.
http://canopy.evergreen.edu/research_dataArchives_1kcs.asp?Id=2
- ▶ **Oregon High Lakes Amphibian Survey - Volunteer Field Technician:** Salamander and newt ecology. Mark recapture study of the ecological impacts of introduced brook trout on subalpine aquatic amphibians. Handling of live amphibians. Remote field locations. Short term volunteer work. For US Forest Service, Olympia, WA, northern summer 2001.
- ▶ **Pacific Crest Biodiversity Project -** Educational outreach, Seattle, WA, 1999 & 2000.



Writing & Presentations:

- ▶ Bar-Ness, Y. D., Kirkpatrick, J.B., & McQuillan, P.B. (2007) **Crown structure mapping of *Eucalyptus obliqua*: Quantitative differences between 100 year old and old-growth trees linked to branch competition dynamics.** ([Submitted for peer review](#))
- ▶ Bar-Ness, Y.D., Whitman, M., Junker, R., McQuillan, P.B., Cracknell, M. & Barrows, A. (2007) **Sampling forest canopy arthropod biodiversity with three novel minimal-cost trap designs.** ([Submitted for peer review](#))
- ▶ Bar-Ness, Y. D., Kirkpatrick, J.B., & McQuillan, P.B. (2006) **Age and distance effects on the canopy arthropod composition of old-growth and 100-year old *Eucalyptus obliqua* trees.** *Forest Ecology and Management* 226: 290-298
<http://tinyurl.com/w886a>
- ▶ Bar-Ness, Y. (2005). **Crown structure and the canopy arthropod biodiversity of 100 year old and old-growth Tasmanian *Eucalyptus obliqua*.** MSc thesis, University of Tasmania, Hobart
<http://scidb.evergreen.edu/databank/studycenter/ydbtasmania>

- ▶ Bar-Ness, Y. (2004). **Crown Structural Attributes & the Canopy Invertebrate Fauna Of 100 year-old & Old-growth Tasmanian *Eucalyptus obliqua***. 22nd International Congress of Entomology, Brisbane, August 2004.
<http://www.geog.utas.edu.au/yoav/res/ppt/YoavDanielBarNessICE2004.htm>
- ▶ Grove, S.J., Bashford, R., Bar-Ness, Y., Harrison, K., Yee, M., & Mohammed, C. (2004). **Arthropods in Tasmanian *Eucalyptus obliqua*: how unique is the canopy fauna?** 22nd International Congress of Entomology, Brisbane, August 2004.
- ▶ Bar-Ness, Y. (2003). **Tiny Animals & Titan Trees** Invertebrate Biodiversity and Conservation Conference, Hobart, Australia, October 2003.
<http://www.geog.utas.edu.au/yoav/res/ppt/tinyanimalstitantrees.htm>
<http://www.geog.utas.edu.au/yoav/res/Posterconference.pdf>
- ▶ Bar-Ness, Y. (2003) **Report from the Canopy Down Under**. International Canopy Network Newsletter What's Up 10 (1), Fall 2003.
<http://www.evergreen.edu/ican/pdfs/Newsletter%20pdfs/whatup10.1.pdf>
- ▶ Attended 3rd International Canopy Conference, Cairns, Australia, 2002
- ▶ Attended Cavemania: 2nd Aus. Speleological Federation, Hobart, Australia, 2005
- ▶ Reviewer for: Forest Ecology & Management, and Ecological Monographs



Research Support:

- ▶ **US Fulbright Scholarship, 2008-9**
<http://www.treeoctopus.net/landmarktrees.html>
- ▶ **Institute of International Education, Critical Language Enhancement Award- Hindi, 2008-9**
- ▶ **Warra Long Term Ecological Research Site, Research Grant, 2003-5**
http://www.warra.com/warra/docs/research_projects/docs/research_project_0202.htm
- ▶ **Australian Geographic Society Grant and sponsorship for *Eucalyptus* research, 2002-5** <http://www.australiangeographic.com.au>
- ▶ **University of Tasmania School of Geography and Environmental Studies Research Infrastructure support, 2002-5**
- ▶ **Vertical Safety (Western Australia) sponsorship for climbing equipment, 2002**
<http://www.verticalsafety.com> (offline)
- ▶ **University of Tasmania School of Geography and Environmental Studies Conference attendance funding: 22nd International Congress of Entomology, Brisbane, August 2004.**



References:

- ▶ **Dr. Peter McQuillan**, Lecturer, Geography & Env. Studies, U. of Tasmania, Australia p.b.mcquillan@postoffice.utas.edu.au
- ▶ **Ms. Cindy Updegrave**, Biology, U. of Washington. Seattle, USA cupdegra@u.washington.edu
- ▶ **Dr. Jamie Kirkpatrick**, Geography & Env. Studies, U. of Tasmania, Australia j.kirkpatrick@postoffice.utas.edu.au
- ▶ **Dr. Estella Leopold**, Professor emeritus, Biology, U. of Wash. Seattle, USA eleopold@u.washington.edu



Other:

- ▶ Language skills in Hindi, Spanish, Hebrew
- ▶ Active walker, mountaineer, and caver. Seeks to use naturalist skills in new situations
- ▶ Member of International Canopy Network
- ▶ Member of Cascade Grotto of the National Speleological Society and the Southern Tasmanian Caverneers.
- ▶ Outgoing, cheerful, patient and enjoys working in groups. Freely admits and corrects mistakes
- ▶ Experienced in wilderness/remote areas. Familiarity with minimal-impact practices
- ▶ Aware of necessity for careful data recording; familiar with ecology statistics
- ▶ Exposure and familiarity with forest communities of USA, Australia, India
- ▶ Experience teaching skills for maps, compass, tracking, altimeter, GPS, GIS, and surveying
- ▶ Ridden in two canopy research cranes: Wind River, NW USA, and Cape Tribulation, NE Australia
- ▶ Subject of article "Ground-breaking Research" in Australian Geographic #70, April 2003
- ▶ Outreach on Master's research on several Australian radio interviews
- ▶ Beachwood High School, Ohio, USA Honors Diploma, 1993-1997 National Merit Scholarship Finalist
- ▶ Computer literate- please visit www.treeoctopus.net/services.htm
- ▶ Knowledge of techniques for tree, glacier, rock, cave, & industrial rope access & rescue
- ▶ Mountain and underground experience resume available on request
- ▶ Extensive experience climbing the Cascade Volcanoes of Western USA
- ▶ Strong interest in geology, meteorology, and hydrology of terrestrial ecosystems
- ▶ Keen photographer- please visit www.treeoctopus.net/pho.htm