

Yoav Daniel Bar-Ness

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



Education:

Fullbright Scholar, USA Department of State, Delhi, India
Landmark Trees of India 2008-2009

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

More information at <http://www.treeoctopus.net/india.htm>

School of Geography & Environmental Studies,
University 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.treeoctopus.net/treetop_tas.htm

- Project management and implementation skills
- Leadership and communication skills for complex & dangerous situations
- Rigging, climbing, and working in the treetops of the world's tallest flowering plants
- Surveying, measurement and 3-d computer illustration of forest trees
- Experience with museums and insect collections

- Immersion in Australian forest management issues
- Teaching data collection skills, safety at heights
- Patience and good humor when faced with daunting tasks
- Invertebrate trapping protocols, trap design
- 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 Quantitative Science (Statistics)

Minor in Conservation of Wildland Resources

Minor in Botany

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

- Live animal handling, radio tracking, field surveys
- Animal behavior, sociobiological and genetic theory
- Wildlife ecology, population dynamics, management

- Forest ecology, silviculture, management,
- Landscape management and GIS
- Conservation biology issues and strategies, human

impact on natural populations
-Exposure to botanical gardens, zoological gardens,
aquariums, and museums

-Basic and advanced statistics for wildlife populations
-Senior thesis on crow social behaviour

Beachwood High School, Ohio, USA Honors Diploma, 1993-1997
National Merit Scholarship Finalist

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

Experience:

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.

<http://conserveonline.org/workspaces/ellsworth.creek/documents/tnc-old-growth-forest-refugia-study>

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 recordbreaking 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>

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>

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://acdrupal.evergreen.edu/canopy/research/studies/1kcs>

Idaho Department of Fish and Game - Northern Goshawk Survey:

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.

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.

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.

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.

Long-term travel throughout India: Two year visiting forests and trees throughout India, during the course of fieldwork for Landmark Trees of India.

Science Output:

Bar-Ness, YD, & Hays, K. (2009) **Sadhana Forest Mapping and Baseline Forest Measurement Project.** (Report for Sadhana Forest Restoration Project, Auroville, Tamil Nadu, India)
<http://www.treeoctopus.net/cvPost/SadhanaReport+2009.pdf>

Bar-Ness, YD, & Page, N. (2009) **Agumbe Rainforest Research Station Permanent Sample Plot Establishment.** (Report for ARRS, Karnataka, India)
<http://www.treeoctopus.net/cvPost/AgumbeReportPrint.pdf>

Bar-Ness, Y.D. (2009) **Vateria indica Crown Structure Mapping.** (Report for the Institute Francais, Pondicherry, India, from fieldwork at Upangala Permanent Sample Plot, Karnataka, India)
<http://www.treeoctopus.net/cvPost/VateriaReportYDBarNess.pdf>

Davis, L., Bar-Ness, Y.D., Woolley, T., Shaw, D, & Rolph, D. (2009) **Characterization of Biological Diversity, Structure, and Composition Within Old-Growth Forest Refugia and Young Managed Forests in the Willapa Hills, Washington.** (Report for The Nature Conservancy, and Weyerhaeuser, Washington, USA)
http://www.treeoctopus.net/cvPost/TNC_Ellsworth2007_FinalReport.pdf

Bar-Ness, Y.D. (2010) **Cataloging India's Living Tree Heritage.** Journal of Heritage Studies. (In Press, Indian National Trust for Arts and Cultural Heritage, Delhi, India)
http://www.treeoctopus.net/cvPost/INTACH_CatalogingIndiasLivingTreeHeritage.pdf

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)
http://www.treeoctopus.net/cvPost/BarNess_EucalyptusObliquaCrownStructure_Manuscript.pdf

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)
http://www.treeoctopus.net/cvPost/YDBarNess_ForestCanopyArthropodTrapDesignsMANUSCRIPT.pdf

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://www.treeoctopus.net/cvPost/AgeAndDistanceEffectsOnEucalyptusObliquaArthropods.pdf>

Bar-Ness, Y.D. (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://acdrupal.evergreen.edu/studycenter/node/11>

Reviewer for: Forest Ecology & Management, and Ecological Monographs

Presentations:

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.treeoctopus.net/cvPost/YoavDanielBarNessICE2004.pdf>

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.treeoctopus.net/cvPost/PosterEucalyptusArthropodsTinyAnimalsTitanTrees.pdf>

<http://www.treeoctopus.net/cvPost/ConferencePresentTinyAnimalsTitanTrees.pdf>

Davis, L., Rolph, D., Bar-Ness, Y., Huber, H. & Shaw, D. (2009). **Characterization of biological diversity within old-growth refugia and managed forests in the Willapa Hills, WA**. 81st Northwest Scientific Association Mtg. U. of Washington, Seattle, March 2009

http://www.treeoctopus.net/cvPost/TNC_NWSci_Poster.pdf

Bar-Ness, Y.D., Davis, L., Huber, H., McDonough, C., Sigler, A. & Nordmeyer, C. (2009). **Old-growth islands in an ocean of regrowth: Canopy arthropod refugia in a temperate coastal rainforest landscape**. Fifth International Canopy Conference. Indian Institute of Science, Bangalore, India, October 2009

<http://www.treeoctopus.net/cvPost/Canopy2009TNC.pdf>

Bar-Ness, Y. (2009). **Conserving India's Heritage Trees**. Project workshop keynote at Indian National Trust for Arts and Cultural Heritage. Delhi, India, July 2009.

<http://www.treeoctopus.net/cvPost/INTACHHeritageTreesPresentation.pdf>

Bar-Ness, Y. (2008). **Trees Older Than Mountains: Clarifying Tree Taxon Age for Environmental Education**. Plant Life Through the Age Conference, Birbal Sahni Paleobotany Institute, Lucknow, India, November 2008.

<http://www.treeoctopus.net/cvPost/YDBarNessPaleobotanyPresentation.pdf>

Bar-Ness, Y. (2009). **India's Landmark Trees are the Natural Ambassadors for Environmental Education**. Fifth International Canopy Conference. Indian Institute of Science, Bangalore, India, October 2009.

<http://www.treeoctopus.net/cvPost/Canopy2009LandmarkTrees.pdf>

Bar-Ness, Y. (2009). **Landmark Trees of India**. Fulbright Scholar Conference. Calcutta, India, February 2009.

http://www.treeoctopus.net/cvPost/FulbrightConference_FEB09.pdf

Attended 3rd International Canopy Conference, Cairns, Australia, 2002

Attended Cavemania: 2nd Australian. Speleological Federation, Hobart, Australia, 2005

Outreach:

Bar-Ness, Y. (2003) **Report from the Canopy Down Under**. International Canopy Network Newsletter What's Up 10 (1), Fall 2003.

http://www.treeoctopus.net/cvPost/ICAN_WhatsUp_10.1.pdf

Bar-Ness, Y., Junker, R., & Whitman, M. (2007). **Inexpensive Insect Traps**. International Canopy Network Newsletter What's Up 13 (2), Winter 2007.

http://www.treeoctopus.net/cvPost/ICAN_WhatsUp_13.2.pdf

Bar-Ness, Y. (2005). **Of Bugs and Branches**. Report for Australian Geographic Society.

<http://www.treeoctopus.net/cvPost/AustralianGeographicArticleSubmissionbyYDBarNessshrink.pdf>

Bar-Ness, Y. (2010). **The Kabir Tree**. Outlook Traveller, January 2010.

http://www.treeoctopus.net/cvPost/OutlookTraveller_KabirsBanyan.pdf

Bar-Ness, Y. (2010). **A Garden of Dreams (Delhi Tree Trail)**. Jetwings Magazine, January 2010.

<http://www.treeoctopus.net/cvPost/JetwingsDelhiTreeTrails.pdf>

Bar-Ness, Y. (2010). **Travel Around the World With India's Trees**. WWF-India PANDA Magazine. (In Press)

<http://www.treeoctopus.net/cvPost/PANDATravelAroundTheWorldWithIndiasTrees.pdf>

Exposure:

GEO-India: Take a Bough Interview

http://www.treeoctopus.net/cvPost/GEOmagazineIndia_DEC08.pdf

Time Out Delhi: Landmark Trees in Delhi

<http://www.treeoctopus.net/cvPost/TimeOutDelhiMAR09.pdf>

Indian Express: Finding Old Tree Tops

http://www.treeoctopus.net/cvPost/findingoldtreetopsbyclairmcdougall_delhiindianexpress13apr2008.pdf

Indian Express: Mission Green: Spotting Landmark Trees to Conserve Greens

<http://www.treeoctopus.net/cvPost/IndiaExpress25JUL09article.pdf>

The Nature Conservancy (Washington) Magazine: Life at All Levels

http://www.treeoctopus.net/cvPost/TNCmagazine_fall07_lifeatlevels.pdf

SPAN: News

<http://www.treeoctopus.net/cvPost/SPANjul09.pdf>

Australian Geographic: Groundbreaking Research

http://www.treeoctopus.net/cvPost/AustralianGeographic70_GroundBreakingResearch.pdf

Koshy's Cafe, Bangalore, India: Photography exhibition

<http://www.treeoctopus.net/cvPost/KoshysPresentation.pdf>

<http://www.treeoctopus.net/cvPost/KoshyArtShow.pdf>

Australian Broadcasting Corporation: Radio Interviews

<http://www.treeoctopus.net/cvPost/ABCradioPerthInterviewTassieTrees.mp3>

The Melbourne Age: Shutterbug Photo Column

<http://www.treeoctopus.net/cvPost/MelbourneAgeShutterBugOCT04.pdf>

Miscellaneous Output:

Canopy Databank (International Canopy Network)

<http://acdrupal.evergreen.edu/studycenter/node/11>

Landmark Trees Poster Map (World Wildlife Fund- India)

<http://www.treeoctopus.net/cvPost/WWFLandmarkTreesPosterMapCVpost.pdf>

Landmark Trees Calendar 2010 (Available on-line for print)

<http://www.treeoctopus.net/cvPost/LandmarkTreesIndiaCalendar2010.pdf>

Delhi TreeScouting Electronic Map Guide (Posted on Panoramio)

<http://www.panoramio.com/map/?user=3259834#t=28.573535736052&ln=77.256031270009&z=6>

India Biodiversity Portal Layer (Ashoka Trust for Research on Ecology and Environment)(In progress)

<http://indiabiodiversity.org/>

Landmark Trees Schoolchildrens' Seminar (World Wildlife Fund- India)

<http://www.treeoctopus.net/cvPost/WWFLandmarkTreesPresentation24July2009.kml>

India's Landmark Trees Electronic Maps (Google Earth Layer)

<http://www.treeoctopus.net/cvPost/LandmarkTreesOverall.kml>

Landmark Trees Geotagged Photos (Google Earth Layer)

http://www.treeoctopus.net/cvPost/GeotaggedPhotos_AllTrees_Unsorted.kmz

Islandwood Scientist-in-Residence Lesson Plan (Student activities)

<http://www.treeoctopus.net/cvPost/IslandwoodLessonPlanYDBarNess.pdf>

India's Landmark Trees Electronic Maps (Google Earth Layer)

<http://www.treeoctopus.net/cvPost/LandmarkTreesOverall.kml>

Tree Trail Resources for Fort Cochin, Kerala, India (Documentation and mapping of local tree heritage)

<http://www.treeoctopus.net/cvPost/FortCochinTreeTrailMaterials.zip>

Research Support:

US Fulbright Scholarship, 2008-9

<http://www.treeoctopus.net/india.htm>

Institute of International Education, Critical Language Enhancement Award- Hindi, 2008

Warra Long Term Ecological Research Site, Research Grant, 2003-5

http://www.warna.com/warna/docs/research_projects/docs/research_project_0202.htm
Australian Geographic Society Research Grant 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, 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
Dr. Simon Grove, Conservation Biologist, Forestry Tasmania, Hobart, Australia
simon.grove@forestrytas.com.au
Dr. David Rolph, Senior Conservation Advisor, The Nature Conservancy, Seattle, USA
drolph@tnc.org

Other:

Member of International Canopy Network
Member of Cascade Grotto of the National Speleological Society
Member of Southern Tasmanian Caverneers

Active walker, mountaineer, and caver
Mountain and speleological resume available on request

Knowledge of techniques for tree, glacier, rock, cave, & industrial rope access & rescue
Experience teaching maps, compass, tracking, altimeter, GPS, GIS, and surveying skills
Ridden in two canopy research cranes: Wind River, NW USA, and Cape Tribulation, NE Australia

Strong interest in geology, meteorology, and hydrology of terrestrial ecosystems
Keen photographer- please visit www.treeoctopus.net/pho.htm