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EDUCATION

- Postdoctoral 2010 - 2011** **University of Hawaii Manoa, Honolulu**, Pacific Biosciences Research Center, Center for Conservation Research & Training, Advisor: Robert Cowie
- PhD 2010** **University of Hawaii Manoa, Honolulu**, Zoology with Ecology, Evolution, & Conservation Biology Specialization, Advisor: Sheila Conant
- MS 2007** **University of Hawaii Manoa, Honolulu**, Zoology with Ecology, Evolution, & Conservation Biology Specialization, Advisor: Sheila Conant
- BS 2003** **University of Hawaii Manoa, Honolulu**, Zoology Advisor: Christopher Z. Womersley & Sheila Conant

PROFESSIONAL APPOINTMENTS

- 2011 - Present **Research Collaborator** – Smithsonian Institution, US National Museum of Natural History, Washington, DC
- 2011 - Present **Environmental Consultant** – Garcia and Associates, Honolulu Branch, Kailua, HI
- 2010 - Present **Assistant Research Faculty** - University of Hawaii, Pacific Biosciences Research Center, Center for Conservation Research & Training, Honolulu, HI
- 2010 **Assistant Research Affiliate** - University of Hawaii, Pacific Biosciences Research Center, Center for Conservation Research & Training, Honolulu, HI
- 2008 - 2010 **Graduate Research Assistant** - University of Hawaii, Pacific Biosciences Research Center, Center for Conservation Research & Training, Honolulu, HI
- 2004 - 2008 **Graduate Research Assistant** - University of Hawaii, Zoology, Honolulu, HI
- 2006 - 2008 **Graduate Teaching Fellow** - National Science Foundation GK-12 Program, University of Hawaii, Evolution, Ecology & Conservation Biology Graduate Program, Honolulu, HI
- 2005 - 2006 **Graduate Teaching Assistant** - University of Hawaii, Zoology, Honolulu, HI
- 2004 - 2006 **Graduate Teaching Assistant** - University of Hawaii, Department of Languages & Literatures of Europe & the Americas, Honolulu, HI
- 2000 - 2003 **Laboratory Research Assistant** - University of Hawaii, School of Earth Science & Technology, Honolulu, HI

PEER-REVIEWED PUBLICATIONS

- Meyer, WM, III and **NW Yeung**. 2011. Trophic relationships among terrestrial molluscs in a Hawaiian rain forest: analysis of carbon and nitrogen isotopes. *Journal of Tropical Ecology* 27(4): 441-445.
- Yeung, NW**, DB Carlon, and S Conant. 2009. Testing subspecies hypothesis with molecular markers and morphometrics in the Pacific White Tern complex. *Biological Journal of the Linnean Society* 98: 586-595.
- VanderWerf, EA, LC Young, **NW Yeung**, and DB Carlon. 2009. Stepping stone speciation in Hawaii's flycatchers: Molecular divergence supports new island endemics within the 'Elepaio. *Conservation Genetics*, DOI 10.1007/s10592-009-9958-1.

IN PREP PEER-REVIEWED PUBLICATIONS

- Yeung, NW**, Meyer, WM, KA Hayes, CT Tran, JR Kim, TJ Skelton, and RH Cowie. *In Prep*. A comparison of land snail communities between high and low elevation nurseries in Hawaii. *Biological Invasions*
- Yeung, NW**, EE Strong, BS Holland, KA Hayes, and RH Cowie. *In prep*. Molecular and

- morphological analysis of the Hawaiian Achatinellidae. *Molecular Phylogenetics and Evolution*
- Meyer, WM, KA Hayes, and **NW Yeung**. *In Prep*. Molecular systematics of *Euglandina rosea*: A failed biocontrol by any other name is still called *E. rosea*. *Diversity and Distributions*
- Meyer, WM, KA Hayes, **NW Yeung**, CT Tran, JR Kim, TJ Skelton, and RH Cowie. *In Prep*. Distribution, abundances and impacts of alien snails and slugs on low elevation (< 500 m), disturbed habitats in Hawaii. *Biological Invasions*
- Kim, JR, KA Hayes, **NW Yeung**, and RH Cowie. *In Prep*. Systematics and distribution of veronicellid slugs in the Main Hawaiian Islands. *Pacific Science*
- Hayes, KA, WM Meyer, **NW Yeung**, CT Tran, JR Kim, TJ Skelton, and RH Cowie. *In Prep*. New records of non-native snails and slugs in the Hawaiian Islands. *Bishop Museum Occasional Papers*
- Yeung, NW**, DC Duffy, and S Conant. *In Prep*. The first diet study of Charadriiformes in the Pacific Ocean using stable isotopes: Establishing isotopic variation of a tropical seabird, the White Tern (*Gygis alba*). *Functional Ecology*
- Yeung, NW**. *In Prep*. Population structure in the Pacific White Tern: Source identification of the newly established colony on Oahu Island. *Marine Biology*
- Yeung, NW**. *In Prep*. Systematics of the White Tern (*Gygis alba*): Congruence of molecular and morphological data. *Molecular Phylogenetics and Evolution*
- Duffy, DC, **NW Yeung**, and S Conant. *In Prep*. Review of Natural Resource Management Planning in Hawaii. *Conservation Biology*

OTHER PUBLICATIONS

- Yeung, NW**. 2010. Systematics, Phylogeography, and Feeding Ecology of the White Tern (*Gygis alba*). Ph.D Dissertation. University of Hawaii. Department of Zoology. Honolulu, Hawaii.
- Yeung, NW** and KL Krend. 2008. Avian adventures. *The Kukui Leaf, Lyon Arboretum Newsletter* 32:3.

PENDING GRANTS

- | | |
|-------------------------|---|
| \$54,178
2011 - 2012 | U.S. Army Garrison, Oahu, Hawaii: Assessment of the feeding behavior of <i>Oxychilus alliarius</i> on Oahu, Hawaii. PI: NW Yeung |
| \$34,964
2011 - 2012 | U.S. Army Garrison, Oahu, Hawaii: An illustrated guide to the non-native land snails in Hawaii. PI: NW Yeung |

GRANTS, SCHOLARSHIPS & FELLOWSHIPS AWARDED

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| \$650,000
2011 - 2014 | U.S. National Science Foundation: Hawaiian land snail biodiversity: Systematics, phylogenetics and conservation status of a vanishing fauna. PI: K.A. Hayes, Co-PIs: R.H. Cowie, B.H. Holland, Senior Personnel: NW Yeung |
| \$49,684
2011 - 2012 | U.S. Army Garrison Oahu. PI Cowie, Senior Personnel: NW Yeung . Alien snail control. |
| \$58,813
2010 - 2011 | U.S. Army Garrison, Oahu, Hawaii. PI: Yeung. Assessment of the current distribution, potential for continued spread, and population density of <i>Oxychilus alliarius</i> on Oahu, Hawaii |
| \$10,000
2009 | University of Hawaii Foundation Jessie Kay Memorial Research Fund |
| \$1,142
2008 | University of Hawaii Ecology, Evolution & Conservation Biology Student Travel Award |
| \$1,000
2008 | University of Hawaii Ecology, Evolution & Conservation Biology Student Research Award |

\$58,000 2006 – 2008	University of Hawaii Ecology, Evolution and Conservation Biology Graduate Fellowship in K-12 Education
\$2,500 2005	University of Hawaii Ecology, Evolution and Conservation Biology Student Research
\$500 2005	Hawaii Audubon Society
\$300 2005	University of Hawaii Foundation Life History, Ecology and Conservation of Native Hawaiian Birds Fund

RESEARCH EXPERIENCE

- 2010 - Present **Population Genetics Specialist:** I am using molecular techniques to explore the population structure in the Haleakala Silversword, *Argyroxiphium sandwicense macrocephalum*. University of Hawaii at Manoa, Department of Botany and Department of Plant and Environmental Protection Sciences
- 2008 - Present **Distribution and abundance of land snails in Hawaii:** We are documenting the distribution of alien and native snails and slugs in Hawaii. We are using morphological and molecular techniques to identify these species and depositing voucher specimens in the Bishop Museum, Honolulu for future reference. This survey will provide a comprehensive baseline of the overall distribution of these native and alien terrestrial snails allowing researchers and managers to develop effective monitoring and potential eradication programs, as well as assessments of their impacts on native habitats. Other duties with this position include supervision of student researchers, planning, coordination and participation in outer island field trips, the establishment and maintenance of a fully equipped research laboratory to OSHA standards and maintenance of laboratory website. University of Hawaii at Manoa, Center for Conservation Research and Training
- 2006 - Present **Molecular analysis for and in conjunction with researchers at the University of Hawaii.** Studies focus on the conservation, ecology, systematics and evolution of various organisms (e.g. *Tripneustes gratilla*, *Scaridae* spp., *Phoebastria immutabilis*, etc.). University of Hawaii at Manoa, Department of Zoology
- 2004 - 2010 **Systematics, phylogeography, ecology, and conservation biology of seabirds:** I am using molecular techniques to explore phylogenetic relationships within *Gygis alba* (White Tern) by analyzing genetic variation of populations within the Pacific Ocean and among all nominal subspecies. I am also using stable isotopes to elucidate ecological (trophic status) variation among individuals and populations, with a particular focus within the Hawaiian Archipelago. University of Hawaii at Manoa, Department of Zoology.
- 2006 - 2009 **Sorting, identification and cataloging of insect samples collected on Hawaii's offshore islets in conjunction with a study of the impacts of invasive ants on coastal ecosystems.** University of Hawaii at Manoa, Department of Zoology.
- 2006 - 2008 **Banding of Laysan Albatross and Wedge-tailed Shearwaters as part of long term monitoring and conservation studies.** University of Hawaii at Manoa, Department of Zoology, Hawaii Department of Land and Natural Resources, and Division of Forestry and Wildlife.
- April 2007 **Seabird Necropsy Workshop.** University of Hawaii at Manoa, Hawaii Department of Land and Natural Resources, and Division of Forestry and Wildlife.
- December 2006 **Molecular Ecology for Natural Resource Managers.** Workshop focusing on how molecular sequence data are generated and how to interpret the data;

- examining the distribution of genetic variation of the collector urchin *Tripneustes gratilla*, among several Hawaiian Islands in order to understand the amount of larval dispersal among Islands. University of Hawaii at Manoa, Hawaii Coral Reef Initiative Research Program
- 2003 - 2006 **Literature research of 16th -17th century preservation techniques and counterfeit natural history/zoological specimens.** University of Hawaii at Manoa, Department of Languages and Literatures of Europe and the Americas.
- 2000 - 2003 **Pollutant sediment and nutrient fluxes in Southern Kaneohe Bay: Impacts on production and community structure.** Responsible for data compilation, filtration of suspended solids from stream water following trace metal clean protocols, maintenance of operations and data integrity of laboratory computers, creation and maintenance of laboratory website presenting data collected from various studies, establishment and maintenance of laboratory to OSHA compliant standards, sample preparation for nutrient analysis, and sediment analysis for chemical and physical composition. University of Hawaii at Manoa, School of Ocean and Earth Science and Technology.

TEACHING EXPERIENCE

- 2011 Instructor for Honors 495 (Introduction to Research), Honors Program, University of Hawaii.
- 2011 Guest lecturer for HON 491 (Conservation Biology), University of Hawaii (Topic: Conservation Genetics Applications)
- 2011 Guest lecturer for LLEA 270 (Freaks and Monsters; Monsters, Freaks and Otherness in Literature, Film, History and Medicine. Department of Languages and Literatures of Europe and the Americas, University of Hawaii).
- 2007 - 2011 Guest lecturer for Lyon Arboretum Education Program, University of Hawaii (Topics: Interdependence, Forest birds).
- 2008 Teaching science as inquiry workshop for Maui Economic Development Board, Women in Technology Project at University of Hawaii.
- 2007 Organized and co-taught Population Genetics Primer. Department of Zoology, University of Hawaii.
- 2007 Picturing Science workshop for Hawaii's Science Teachers. Pacific Resources for Education and Learning, University of Hawaii and Hanauma Bay Nature Preserve.
- 2006 Organized and co-taught Graduate Level Molecular Systematics/Ecology Primer. Department of Zoology, University of Hawaii.
- 2006 - 2008 NSF GK-12 Teaching Fellow. University of Hawaii, Lyon Arboretum, University Laboratory School and Hokulani Elementary School.
- 2005 Graduate teaching assistant for Advanced Topics in Conservation and Environmental Biology. University of Hawaii, Department of Zoology
- 2004 - 2006 Graduate teaching assistant for Monsters, Freaks and Otherness in Literature, Film, History and Medicine, Department of Languages and Literatures of Europe and the Americas, University of Hawaii

MENTORING

- University of Hawaii K Merrill (2006-2008), JR Kim (2007-Present), CM Yee (2008-Present), TJ Skelton (2008-2010), PA Curry (2009-2011), TH Durkan (2011-Present), DTB Ressler (2011-Present)

PROFESSIONAL SERVICE ACTIVITIES

- 2008 Guest lecturer for Teaching Science as Inquiry Workshop

- 2008 Guest instructor/systematics guide for Punahou BioBlitz (7-9 graders)
- 2008 Hawaii State Science and Engineering Fair, Judge
- 2007 - 2009 Guest lecturer for Lyon Arboretum Education Program
- 2007 - 2008 Organizing committee member for Albert L. Tester's Symposium,
- 2007 Guest lecturer for Picturing Science Workshop at Hanauma Bay
- 2007 Guest speaker and fund-raising volunteer for Hawaii Public Radio, EECB GK-12
- 2005 - 2006 Graduate student representative University of Hawaii, Department of Zoology

PROFESSIONAL AFFILIATIONS

- 2010 - Present Society for Integrative and Comparative Biology
- 2008 - Present American Association for the Advancement of Science
- 2008 - Present Pacific Seabird Group
- 2006 - Present American Ornithologists' Union
- 2004 - 2006 Society for the History of Natural History

INVITED PRESENTATIONS (PRESENTER IN BOLD)

- Yeung, NW.** Systematics and Phylogeography of the White Tern (*Gygis alba*). Invited presentation at the 1st World Seabird Conference in the Evolutionary and Conservation Genetics of Seabirds Special Paper Session, September 2010.
- Yeung, NW.** Ecology, Evolution, and Conservation Biology: Tales from a Feather as Told by the White Tern (*Gygis alba*) and Additional Short Stories From the Foot of a Snail. Invited presentation at the Smithsonian Institution National Museum of Natural History Zoology Seminar. July 2009.
- Hayes, KA,** RH Cowie, WM Meyer, CT Tran, JR Kim, and NW Yeung. (Oral) Introduction Pathways, Spread and Impacts of Alien Snails and Slugs in Hawaii. Presented at the 6th International Integrative Pest Management Symposium, Portland Oregon. Invited workshop participant in Snail and slug management in ornamentals in the Western U.S. 2009

CONTRIBUTED PRESENTATIONS (PRESENTER IN BOLD)

- Durkan, TH, **NW Yeung,** KA Hayes, DTB Ressler, DR Sischo, PA Curry, KL Coleman, CM Yee, TE Takebayashi, A Kong, JR Kim, and RH Cowie. (Poster) Micromollusc sampling: evaluating field survey techniques in Hawaii's tropical forests. Presented at the 77th American Malacological Society Meeting. 23-28 July 2011.
- Yeung, NW,** BS Holland and RH Cowie. (Oral) Molecular and morphological analysis of the Hawaiian Achatinellidae. Presented at the 77th American Malacological Society Meeting. 23-28 July 2011.
- Yeung, NW,** BH Holland, and RH Cowie. (Poster) Preliminary Phylogenetics of the Non-Achatinelline Achatinellidae. World Congress of Malacology, 18-24 July 2010.
- Yeung, NW,** KA Hayes, WM Meyer, CT Tran, J. Kim, TJ Skelton and RH Cowie. (Oral) Searching high and low: Alien snails and slugs in the horticultural industry of Hawaii. World Congress of Malacology, 18-24 July 2010.
- Kim, JR,** KA Hayes, NW Yeung and RH Cowie (Poster) Invasive veronicellid slugs in the main Hawaiian Islands. World Congress of Malacology, 18-24 July 2010.
- Yeung, NW.** (Oral) The stuffed, the molted, and the freshly dead: systematics, phylogeography and morphometrics (SPaM) of the White Tern. Presented at the Zoology-Botany Seminar, University of Hawaii at Manoa. March 5, 2010.
- Yeung, NW.** (Oral) Better living through chemistry: non-invasive sampling techniques for the study of diet, relationships and population genetics of the White Tern. Presented at the Evolunch Seminar, University of Hawaii at Manoa. 2010.

- Yeung, NW.** (Oral) Ecology, Evolution, and Conservation Biology: Tales from a Feather as Told by the White Tern (*Gygis alba*). Presented at the 17th Hawaii Conservation Conference. 2009.
- VanderWerf, EA,** LC Young, NW Yeung, and DB Carlon. (Poster) Stepping Stone Speciation in Hawaii's Flycatchers: Molecular Divergence Supports New Island Endemics Within the 'Elepaio. Presented at the 17th Hawaii Conservation Conference. 2009.
- Kim, JR,** KA Hayes, NW Yeung, and RH Cowie. (Oral) The prevalence of *Angiostrongylus cantonensis* in the Main Hawaiian Islands. Presented at the 17th Hawaii Conservation Conference. 2009.
- Yeung, NW, KA Hayes, CT Tran, JR Kim, **TJ Skelton**, WM Meyer, and RH Cowie. (Poster) Introduction, spread and impacts of alien snails and slugs in Hawai'i. Presented at the 17th Hawaii Conservation Conference. 2009.
- Kim, JR, KA Hayes, NW Yeung, and **RH Cowie.** (Poster) Invasive veronicellid slugs in the Main Hawaiian Islands. Presented at the 17th Hawaii Conservation Conference. 2009.
- Yeung, NW** (Oral) Phylogenetics of the non-achatine Achatinellidae: the other "handsomely colored" tree snails of Hawaii. Presented at the 75th American Malacological Society Meeting. 2009.
- Yeung, NW, **KA Hayes**, CT Tran, JR Kim, TJ Skelton, WM Meyer, and RH Cowie. (Poster) Introduction, spread and impacts of alien snails and slugs in Hawai'i. Presented at the 75th American Malacological Society Meeting. 2009.
- Yeung, NW.** (Oral) Ecology, Evolution, and Conservation Biology: Tales from a Feather as Told by the White Tern (*Gygis alba*) and Additional Short Stories From the Foot of a Snail. Invited to the Smithsonian Institution National Museum of Natural History Weekly Zoology Seminar. 2009.
- Cowie, RH,** KA Hayes, WM Meyer, CT Tran, JR Kim, TS Skelton, and NW. Yeung. (Oral) Introduction pathways, spread and impacts of snails and slugs in Hawaii. Presented at the 2nd Annual Pacific Biosciences Research Center's Symposium on Biodiversity. 2009
- Kim, JR,** KA Hayes, NW Yeung, and RH Cowie. (Oral) The prevalence of the rat lungworm, *Angiostrongylus cantonensis*, in the Main Hawaiian Islands Presented at the 2nd Annual Pacific Biosciences Research Center's Symposium on Biodiversity. 2009.
- VanderWerf, EA,** LC Young, NW Yeung, and DB Carlon. (Poster) Conveyor Belt Speciation in Hawaii's Flycatchers: molecular divergence supports new island endemics within the elepaio. Presented at the 79th Cooper Ornithology Society Meeting. 2009.
- Hayes, KA,** RH Cowie, WM Meyer, CT Tran, JR Kim, and NW Yeung. (Oral) Introduction Pathways, Spread and Impacts of Alien Snails and Slugs in Hawaii. Presented at the 6th International Integrative Pest Management Symposium, Portland Oregon. Invited workshop participant in Snail and slug management in ornamentals in the Western U.S. 2009
- Yeung, NW,** S Conant, WM Meyer. (Poster) Understanding Genetic Variation in Pacific Populations of the White Tern (*Gygis alba*). Presented at the 35th Annual Meeting of the Pacific Seabird Group, Blaine, Washington. 2008.
- Gupta, A, K Tice, D Barshis, ML Knope, H Spalding, and NW Yeung.** (Oral) Cooking Up Creative Science. Presented at the Evolunch Seminar, University of Hawaii at Manoa, Honolulu, HI. 2007.
- Yeung, NW.** (Oral) One Fairy, Two Fairy, Three Fairy-Tern: assessment of the Pacific subspecies of *Gygis alba*. Presented at the 3rd Biennial Systematics and Phylogenetics Student Research Symposium, Honolulu, HI. 2007.
- Yeung, NW.** (Oral) The Feather Dance: genetic variation in the White Tern (*Gygis alba*). Presented at the 33rd Annual Tester Memorial Symposium, Honolulu, HI. 2007.
- Yeung, NW, K Tice, M Parker, ML Knope, L Dewan, and J Philippoff.** (Oral) An Archipelago of Opportunities; Teaching Science through Inquiry. Presented at the Evolunch Seminar, University of Hawaii at Manoa, Honolulu, HI. 2007
- Yeung, NW,** EA VanderWerf, and LC Young. (Poster) Population Genetics of the White Tern in the

- Pacific. Presented at the 5th Annual Hawaii Chapter of The Wildlife Society Workshop: Seabird Conservation & Management in the Hawaiian Islands, Honolulu, Hawaii. 2006.
- Yeung, NW**, EA VanderWerf, and LC Young. (Poster) Whither the White Tern... Population Genetics, Systematics and Distribution. Presented at the 4th North American Ornithological Conference, Veracruz, Mexico. 2006.
- Duffy, DC, S Conant, SF Dunbar, **NW Yeung**, JM Hawee, WA Kuntz, SM Plentovich, KL Krend, VK Stein, KR Buholm, HL Spalding, M Parker, ML Dailer, and LE Kozloff. (Poster) Can Plan or No Can Plan? Review of Natural Resource Management Planning in Hawaii. Presented at the 14th Hawaii Conservation Conference. 2006.
- Yeung, NW**. Oral Presentation. Whither the White Tern... Population Genetics, Systematics and Distribution. (Oral) Presented at the 32nd Annual Tester Memorial Symposium, Honolulu, HI. 2006.
- Baumgartner, E, L Dewan, M Knope, M Parker, J Philippoff, K Tice, and N Yeung**. (Oral) Teaching Science as Inquiry with the University of Hawaii GK-12 Program. Presented at the Hawaii Science Teachers Association Fall Conference. 2006.
- Tomlinson, MS**, EH De Carlo, VL Beltran, S Narod, V Todd, and NW Yeung. (Poster) The DGT--A Device for Measuring Dissolved Trace Elements in Fresh and Ocean Water? Presented at the 2002 AGU/Ocean Sciences Meeting, Honolulu, HI. 2002.

REFERENCES

Dr. Robert H. Cowie

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Dr. David C. Duffy

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