

Samuel M. Gon III
Curriculum vitae

Born**Education**

McKinley High School, Honolulu 1973
 University of Hawai'i at Mānoa, Honolulu B.A., Zoology 1978
 University of California, Davis M.A., Zoology 1979
 University of California, Davis Ph.D. Animal Behavior 1985

Current Interests

Site and landscape planning and management for biodiversity conservation
 History and mapping of landscape ecosystem change
 Natural and cultural history of the Hawaiian Archipelago
 Invertebrate biology, ecology, evolution, and conservation
 Ethnobiology and cultural applications for conservation and land management

Honors**Research Support
and Awards**

University of Hawai'i Dean's list 1973-76
 NSF-SOS Grant SMI-76-07608 1976
 NSF-SOS Grant SMI-77-05153 1977
 Gamma Sigma Delta (International Honor Society in Agriculture) 1977
 University of California Regents Fellowship 1980, 1981, 1982, 1983
 Jastro Shields Research Scholarship 1980, 1981
 University of California Graduate Research Scholarship 1982
 Sigma Xi Grant in Aid of Research 1983
 Hawai'i Evolutionary Biology Program Research Grant 1983
 Exline-Frizzel Fund for Arachnological Research Grant 1984
 NOAA Basic Grant for Estuarine Research 1986
 Whitehall Foundation Research Grant 1987
 National Gap Analysis Program Grant 1999
 R.J. KOSE Foundation Grant 2001
 Garden Club of America, Honolulu 2001
 Kamehameha Schools Beamer Family Emalani Searfoss Award 2006
 Keep It Hawai'i Kahili Award for Hawaiian Culture 2008
 Western Assoc. Forestry & Wildlife Agencies Commission of the Year 2012
 Hawai'i Conservation Alliance Distinguished Service Award July 2013
 Living Treasure of Hawai'i (Honpa Hongwanji Mission) February 2014

**Membership
in Scientific Societies**

American Society for the Advancement of Science
 American Arachnological Society
 Animal Behavior Society
 Bishop Museum Association
 Hawai'i Audubon Society
 Hawaiian Botanical Society
 Hawaiian Entomological Society
 Lyon Arboretum Association
 Paleontological Society
 Sigma Xi (Scientific Research Society)

- Teaching Experience** Teaching Assistant, University of California Zoology Department. General Zoology Laboratory Course. 1978 - 1981.
- Team Teaching, University of California Animal Behavior Group. Animal Behavior Course (Topics in Animal Behavior). 1982.
- Course Reader, University of California Zoology Department. Zoology Course (Introduction to Animal Behavior). 1982.
- Guest Lecturer, University of Hawai'i General Science Department. General Science Course (Science: Hawaiian Perspective). 1984.
- Numerous additional yearly teaching/lecture opportunities. 1985 - present. In Geology, Hawaiian Natural History, Hawaiian Culture, Regional Planning.
- Affiliate Faculty, Department of Urban and Regional Planning, University of Hawai'i at Mānoa. 1999 – ongoing.
- Research Experience** Stipended Field Researcher. Mammalogy/Vegetation Ecology. 1976
NSF project: Resources Base Inventory of Manawainui Valley, Maui.
- Stipended Field Researcher. Limnology. 1976
NSF project: Resources Base Inventory of Manawainui Valley, Maui.
- Stipended Field Researcher. Entomology. 1977.
NSF project: Resources Base Inventory of South Kona, Hawai'i.
- Student Research Assistant. Comparative Psychology. 1977 - 1978.
Language acquisition studies in the bottlenose dolphin *Tursiops truncatus*.
University of Hawai'i Marine Mammal Facility, Kewalo Basin.
- Laboratory Researcher. Biological Control. 1978.
Evaluation of a potential biological control organism for *Clidemia hirta* (Pseudococcidae).
Hawai'i State Department of Agriculture.
- Field Researcher. Taxonomy. 1980.
Taxonomic survey of the arachnid fauna of Kīpahulu Valley below 1000 feet. University of Hawai'i (CPSU/UH)
- Doctoral Research. Behavioral Ecology. 1979 - 1983.
Comparative behavioral ecology of the spider *Theridion grallator* (Simon) in the Hawaiian Archipelago. Animal Behavior Graduate Group, University of California, Davis.
- Field Researcher. Taxonomy. 1985.
Taxonomic survey of the arachnid fauna of the Central Crater District. Haleakalā National Park and University of Hawai'i (CPSU/UH)
- Editorial and Research Assistant. Taxonomy. 1985 - 1986.
Catalog of Diptera of the Australasian/Oceanic Region.
Bernice Pauahi Bishop Museum.
- Post-Doctoral Research Associate. Invertebrate Zoology. 1986 - 1988.
Invertebrate Survey of the Waimanu Estuarine Sanctuary.
University of Hawai'i at Mānoa.

Research Experience (continued)	<p>Ecologist. Community Ecology. 1986 - 2001. Hawai'i Natural Heritage Program, The Nature Conservancy of Hawai'i.</p> <p>Field Ecologist, Community Ecology. 1988 - 1989. Hawai'i State Natural Area Reserve System Inventory. Hawai'i Natural Heritage Program, for Hawai'i State Department of Land and Natural Resources, Division of Forestry and Wildlife.</p> <p>Principal Investigator, Hawai'i GAP Project 2002 - 2006 Landcover Mapping for the Main Hawaiian Islands</p> <p>Principal Investigator, Hawaiian Footprint Project 2008 - ongoing Assessing the ecological footprint of pre-contact Hawaiians via GIS rendering of archeology, ecological & agricultural modeling, and traditional knowledge.</p> <p>Effective Conservation Project: Originator and steering committee member. to establish and implement a method to assess progress in conservation effectiveness via geospatial analysis of conservation targets, legal designation, active management actions removal of stresses, and ongoing stakeholder involvement. Hawai'i Conservation Alliance. 2003-ongoing.</p> <p>PICCC Vulnerability Assessment Working Group member 2011-2013: Co-created matrix of vulnerability factors and participated in assessment as a Hawaiian ecosystem and resource management expert.</p>
Administrative Experience	<p>Science Staff Director. 1991 - 1992. Hawai'i Natural Heritage Program, The Nature Conservancy of Hawai'i.</p> <p>Program Coordinator. 1992 - 1994. Hawai'i Natural Heritage Program, The Nature Conservancy of Hawai'i. Supervising professional scientific and production staff of 12, ca \$1 million annual program budget.</p> <p>Director of Science. 1995 - 2004. The Nature Conservancy of Hawai'i. Supervising professional scientific staff and guiding science basis of all programs of The Conservancy in Hawai'i.</p> <p>Senior Scientist / Cultural Advisor. 2004 – ongoing. The Nature Conservancy of Hawai'i. Guiding the science basis of all programs and providing Hawaiian cultural training and counsel to leadership and staff.</p> <p>Hawai'i Management Committee. 1992 – ongoing Hawai'i Field Office, The Nature Conservancy of Hawai'i. Participating in team management decisions affecting all major departments of The Nature Conservancy's Hawai'i Program.</p>

- Publications
(chronological)** Gon, S.M., III. 1976. Mammalogy report. in: *The Scientific Report of the Manawainui Research Project*. D. Peterson, ed. U. of Hawai'i. (NSF/SOS SMI-76-07608) p121-60.
- Gon, S.M., III. 1976. A preliminary report: The freshwater fauna of the Manawainui region. in: *The Scientific Report of the Manawainui Research Project*. D. Peterson, ed. Univ. of Hawai'i. (NSF/SOS SMI-76-07608) pp. 289-300.
- Gon, S.M., III. 1978. Altitudinal effects on the general diversity of endemic insect communities in a leeward Hawaiian forest system, Manukā Forest Reserve, South Kona, Hawai'i. in: *Proc. 2nd Conference Natural Sciences Hawai'i Volcanoes National Park*. pp. 134-49.
- Gon, S. M., III & L. W. Pinter. 1980. Annotated list of the arachnid fauna of Kīpahulu Valley below 2000 feet. in: *Resources Base Inventory of Kīpahulu Valley below 2000 feet*. CPSU/UH (University of Hawai'i and The Nature Conservancy). pp. 109-18.

- Publications (continued)** Gon, S.M., III. 1982. 'Alalā reported from the ahupua'a of Manukā, South Kona, Hawai'i. *'Elepaio* (J. Hawai'i Audubon Soc.) 43(6):47-8.
- Gon, S.M., III. 1984. Reciprocal courtship experiments between allopatric populations of *Theridion grallator*: Asymmetrical isolation and incipient speciation depends on habitat heterogeneity. in: *Proc. 5th Conference Natural Sciences Hawai'i Volcanoes National Park*. pp. 62-77.
- Gon, S. M., III & E. O. Price. 1984. Behavioral considerations in invertebrate domestication. *Bioscience* 34:575-9.
- Stamps, J. A. & S. M. Gon III. 1984. Sex-biased pattern polymorphism in the prey of birds. *Ann. Rev. Ecol. Syst.* 14:231-53.
- Gon, S.M., III. 1985. *Comparative Behavioral Ecology of the Spider Theridion grallator (Simon) (Araneae : Theridiidae) in the Hawaiian Archipelago*. Doctoral dissertation. University Microfilms. x + 365 pp. illus.
- Gon, S. M., III. 1985. The residence leaf as a prey-monitoring surface for *Theridion grallator* Simon, (Theridiidae:Araneae). *Proc. IXth Int'l Congr. Arachnol.* pp. 101-8.
- Gon, S. M., III. 1985. A Hawaiian wolf spider (*Lycosa* sp.) foraging in the top of a *Metrosideros* tree. *J. Arachnol.* 13:393.
- Gon, S. M., III, R. Kimsey, R. O. Schuster & M. A. Willis. 1986. Prodrum of the water bear fauna of Haleakalā National Park. in: *Proc. 6th Conference Nat. Sci. Hawai'i Volcanoes National Park*. pp. 15-22.
- Gon, S. M., III, A. L. Newman & The Hawai'i Heritage Program. 1987. *Biological Summary of Rare Species and Communities of Hawaiian Anchialine Pools*. Prepared for Hawai'i County Planning Dept., Hilo.
- Daws, G., S. M. Gon III & The Nature Conservancy of Hawai'i. 1988. *Hawai'i: The Islands of Life*. Signature Publishing, Honolulu. 156 pp., illus. 1988. Hono O Nā Pali Natural Area Reserve survey. *Hawai'i Wildlife Newsletter*. 3(2):5.
- Fujioka, K. & S. M. Gon III. 1988. Unusual concentration of the Hawaiian hoary bat in South Kona, Hawai'i. *J. Mammalogy*. 69(2):369-71.
- Gon, S. M., III. 1988. Observations of the endangered Hawaiian Dark-rumped Petrel (*Pterodroma phaeopygia sandwichensis*) on the island of Kaua'i. *'Elepaio* (J. Hawai'i Audubon Soc.). 48(12):113.
- Gon, S. M., III, A. L. Newman & The Hawai'i Heritage Program. 1988. *Biological Overview of Hawai'i Natural Area Reserves System*. Prepared for Hawai'i Department of Land and Natural Resources, Division of Forestry & Wildlife, Honolulu. 52 pp. + appendices.
- Nagata, K. & S. M. Gon III. 1988. *Sanicula mariversa* (Apiaceae), a new species from 'Ōhikilolo Ridge, Wai'anae Mountains, O'ahu, in the Hawaiian Archipelago. *Systematic Botany* 12(3):406-9.
- Evenhuis, N. & S. M. Gon III. 1989. Culicidae. in: *Catalog of the Diptera of the Australasian/Oceanic Region*. Bishop Museum Press, Honolulu.

- Publications (continued)** Gon, S. M., III. 1989. *Aves Hawaiiensis: The Birds of the Sandwich Islands*. Hemmeter Publishing Co., Honolulu. [species updates for centennial reprint of the color plates of the Wilson and Evans.] 28 pp., illus.
- Gon, S. M., III, A. L. Newman & Hawai'i Heritage Program. 1989. *Hawaii's Natural Area Reserves System: Resources and Management Summary Report*. Prepared for Hawai'i Department of Land and Natural Resources, Division of Forestry & Wildlife, Honolulu. 34 pp. + appendices (62 pp.).
- Loope, L. & S. M. Gon III. 1989. Biological diversity and its loss. in: Stone, C. ed., *Conservation Biology in Hawai'i*. pp. 109-17.
- Gon, S. M., III. 1993. Bog discovered on O'ahu. *Hawaii Wildlife Newsletter*.
- Gon, S. M., III. 1994. A Hawaiian bog in the Ko'olau Mountains of O'ahu? Evidence from community structure and diagnostic species. *Newsletter Hawn. Bot. Soc.* 33(4): 89-96.
- Gon, S. M., III. 1995. The ecosystem approach to conservation of Hawaiian arthropods. *Pacific Entomology Conference*, Honolulu. Paper presented February 16, 1995.
- Cowie, R.H., G. M. Nishida, Y. Basset, & S. M. Gon III. 1995. Patterns of land snail distribution in a montane habitat on the island of Hawai'i. *Malacologia* 36(1-2): 155-69.
- Sohmer, S. & S. M. Gon III. 1995. Hawaiian Islands, Hawai'i, U.S.A. in: *Centres of Plant Diversity: A Guide and Strategy for their Conservation. Volume 2: Asia, Australia and the Pacific*. IUCN Publications Unit, Cambridge, U.K.
- Gon, S. M., III, J.Q.C. Lau, J. P. Miller, S. U. Kahele & The Hawai'i Natural Heritage Program. 1997. *Application of Traditional Ecological Knowledge and Practices of Indigenous Hawaiians to the Revegetation of Kaho'olawe*. Prepared for the Kaho'olawe Island Reserve Commission.
- Gon, S. M., III, A. Allison, R.J. Cannarella, J.D. Jacobi, M.H. Kido, S.E. Miller & D.E. Orodener. 1999. Hawai'i: A Tropical Insular Approach to Gap Analysis. *GAP Analysis Bulletin* 8:16-17.
- Gon, S. M., III & D. Olson. 1999. Focus on Hawai'i Biodiversity and Ecoregions. in *Terrestrial Ecoregions of North America: A Conservation Assessment*. Ricketts, T.H., E. Dinerstein, D.M. Olson, C.J. Loucks, et al. Island Press, Washington, D.C.
- Pratt, L.W.C. and S. M. Gon III. 1999. The Biotic Environment: Terrestrial Ecosystems. in: *Atlas of Hawaii, 3rd Edition*. Juvik and Juvik, eds. University of Hawai'i Press.
- Gon, S. M., III. 2000. Summary of Hawaiian Religious Protocol Appropriate for Interpretive Programs at Kūkaō'ō Heiau, Mānoa, O'ahu. Prepared for Kūali'i Foundation as foundation for proposed education programs.
- Gon, S. M., III & the Makua Implementation Team. 2001. *Implementation Plan: Makua Military Reservation, Island of O'ahu*. [long-range plan for the stabilization of 30 endangered species found in the Makua Training Area] Prepared for U.S. Army Garrison, Directorate of Public Works, Environmental Division, Schofield Barracks HI 96857.
- Gon, S. M. III. 2003. Application of traditional ecological knowledge and practices of indigenous Hawaiians to the revegetation of Kaho'olawe. *Ethnobotany Research and Applications* 1:5-20.