

CURRICULUM VITAE

Name: Ofer Gon
Nationality: South Africa
Current address: South African Institute for Aquatic Biodiversity, Private Bag 1015,
Grahamstown 6140, South Africa.

Education

B.Sc. - Biology, Hebrew University, Jerusalem, 1974.
M.Sc. - Oceanography and Marine Biology (with distinction), Hebrew University, Jerusalem, 1979.
M.A. - History, Rhodes University, Grahamstown, 2003.

Employment

1970 - 1971: Commercial diver.
1974 - 1977: Student summer employment; laboratory and diving assistant for Dr J.E. Randall, working mainly on the labrid and scarid fishes of the Red Sea.
1979 - 1981: Bernice P. Bishop Museum, Honolulu, Hawaii, research assistant in the Fish Division, dealing mainly with pelagic and deep-sea fishes of the central and south Pacific Ocean (Dr J.E. Randall senior ichthyologist).
1982: H. Steinitz Marine Laboratory, Eilat, Israel, research assistant, experiments on the rate of calcium carbonate sedimentation in the test of planktonic Foramenifera and coral skeleton (Dr J. Erez senior scientist).
1983: J.L.B. Smith Institute of Ichthyology, Grahamstown, South Africa, scientific assistant, research and editorial tasks for the new edition of *Smiths' Sea Fishes* (Prof. M.M. Smith and Dr P.C. Heemstra senior ichthyologists).
1984 - 1990: J.L.B. Smith Institute of Ichthyology, research officer, contract to produce *Fishes of the Southern Ocean* (O. Gon & P.C. Heemstra, eds).
1991 - 2014: South African Institute for Aquatic Biodiversity, senior scientist (from 1995), research on the systematics and biology of marine fishes.

Conferences and workshops

1983: Fifth National Oceanographic Symposium. Grahamstown, South Africa.
1984: Workshop of the BIOMASS Working Group of Fish Ecology. Paris France.
Contribution: Introducing *Fishes of the Southern Ocean* to members of the Working Group (oral presentation).
1987: Alternative Life History Styles of Fishes and Other Organisms. Grahamstown, South Africa.
Contribution: The biology and taxonomy of Southern Ocean Fishes (poster).
1987: 6th National Oceanographic Symposium. Stellenbosch, South Africa.
Contribution: The fishes collected during the South African SIBEX II expedition to Prydz Bay, Antarctica (poster).
1987: BIOMASS post-SIBEX workshop: data evaluation. Cambridge, England.
Contribution: An analysis of net selectivity and avoidance during SIBEX Cruises (W. Slosarczyk second author) (oral presentation).
1991: Marine, Estuarine and Freshwater Ecosystems Conference. Grahamstown, South Africa.
Contribution: The biology of two nototheniid species in the inshore zone of the sub-Antarctic Marion Island (oral presentation).
1994: Systematic thinktank 1994. National Museum, Bloemfontein, South Africa. A workshop on the future of biosystematic research and natural history collections in South Africa.
1995: Systematic thinktank 1995. Transvaal Museum, Pretoria, South Africa. A workshop on role of natural history museum in biodiversity research in South Africa.
1997: Ninth International Congress of European Ichthyologists (CEI9) "Fish Biodiversity". Trieste,

- Italy.
Contribution: The systematics and biogeography of the cardinalfish subgenus *Jaydia* (Apogonidae: *Apogon*) (oral presentation).
Chair person: Symposium on adaptive ecology.
- 1998: PARADI/FISA African Fish and Fisheries. Grahamstown, South Africa.
Contribution: Phylogenetic relationships in the cardinalfish family Apogonidae (oral presentation).
- 2000: Systematics 2000 Conference. Mtunzini, KwaZulu-Natal, South Africa.
Contribution: The taxonomic challenge of geminate species - a case study from the family Apogonidae (oral presentation).
Chair person: Session on molecular and biochemical methods
- 2001: 6th Indo-Pacific Fishes Conference. Durban, KwaZulu-Natal, South Africa.
Contribution: Revision of the Indo-Pacific cardinalfish genus *Archamia* (Perciformes: Apogonidae) (oral presentation).
- 2001: 33rd anniversary conference of the Heinz Steinitz Marine Laboratory, Eilat, Israel.
Contribution: Review of the cardinalfishes (Pisces, Apogonidae) of the Red Sea.
- 2002: 3rd congress of the Southern African Society of Systematic Biology, Grahamstown, South Africa.
Contribution: History of marine fish systematics in South Africa (oral presentation).
Chair person: Session on electronic databases.
Workshop: The Specify collection management software (organiser and facilitator).
- 2003: 4th congress of the Southern African Society of Systematic Biology, Pretoria, South Africa.
Contributions: (1) Beyond Smiths' Sea Fishes: recent advances in South African marine fish studies (senior presenter, in collaboration with Anderson, M.E., Heemstra, P.C., Mwale, M. (2) The elusive yellow-barred cardinalfish, *Archamia flavofasciata* (Perciformes: Apogonidae).
- 2003: Coastal & Ocean Exploration Conference, East London, South Africa. *Contribution:* Fishes of the western Indian Ocean (in collaboration with Anderson, M.E., Heemstra, P.C., Mwale, M., Mthombeni, V., Heemstra, E. & Wright, J.)
- 2004: FAO Eastern Central Atlantic Workshop, 15-22 July 2004. Centro Oceanográfico de Canarias, Instituto Español Oceanografía, Tenerife, Canary Islands, Spain.
- 2005: 5th congress of the Southern African Society of Systematic Biology, Western Cape, South Africa.
Contributions: (1) The taxonomy of uniformly red cardinalfishes of the genus *Apogon*. (2) The S.S. Pickle Fiasco.
- 2005: The 7th Indo-Pacific Fish Conference, Taipei, Taiwan.
Contributions: (1) The *Ichthyological Bulletin* series of J.L.B. Smith's Department of Ichthyology in the period 1956-1966. (2) The Indo-Pacific cardinalfish genus *Siphamia* (Perciformes: Apogonidae).
- 2005: South African Museum Association 2005 Conference, Pretoria, South Africa.
Contributions: The SS *Pickle* fiasco (Vusi Mthombeni, second author).
- 2006: 6th congress of the Southern African Society of Systematic Biology, Kruger National Park, South Africa.
Contributions: (1) The systematics of the cardinalfishes genus *Siphamia* Weber (Perciformes: Apogonidae) (1st author, in collaboration with G.R. Allen). (2) The south African fishes of the genus *Glossogobius* Gill (Perciformes: Gobiidae) (1st author, in collaboration with M. Mwale, H. Larson and C. Mavimbela). (3) Smith versus von Bonde: a personality clash with grave consequences. (4) Intraspecific genetic variation in the South African endemic estuarine goby, *Caffrogobius gilchristi* (3rd author, in collaboration with C. Mavimbela and M.

- Mwale). (5) Intraspecific genetic variation in *Psammogobius knysnaensis* an endemic South African gobiid species (2nd author, in collaboration with M. Mwale and C. Mavimbela). (6) A molecular phylogeny of South African goby species of the genus *Caffrogobius* (poster, 3rd author, in collaboration with C. Mavimbela and M. Mwale).
- 2007: South African Museums Association Conference, Cradle of Humankind World Heritage Site, Maropeng. *Contributions:* (1) An information management system to support the move of the National Fish Collection (poster, 2nd author, in collaboration with W. Coetzer and J. Kruger). (2) . A new custom-designed curation management system for the National Fish Collection at SAIAB – applications and implications (3rd author, in collaboration with W. Coetzer, J. Kruger and K. Dubula).
- 2007: Building for the Future: Museums of the 21st Century, St Paul, Minnesota, USA. *Contribution:* Moving into the Future: Relocating the National Fish Collection.
- 2008: SAAB-SASSB joint conference, Drakensville Mountain Resort, KwaZulu-Natal. *Contributions:* (1) Lessepsian migration of cardinalfishes (Teleostei, Apogonidae) (1st author, in collaboration with D. Golani). (2) Soles of the genus *Aseraggodes* (Pleuronectiformes, Soleidae) of the western Indian Ocean (2nd author and presenter, in collaboration with J.E. Randall). (3) Intraspecific genetic structure in the prison goby, *Caffrogobius gilchristi* (Teleostei, Gobiidae), in eastern and southern Cape estuaries (3rd author, in collaboration with C. Mavimbela, M. Mwale and S. Dippenaar). (4) Population structure of *Glossogobius callidus* (Smith 1937) (Teleostei: Gobiidae) along the east coast of South Africa (3rd author, in collaboration with P. Maake, M. Mwale and S. Dippenaar).
- 2008: SAWMA conference, Empekweni Beach Resort, Eastern Cape. *Contribution:* Genetic diversity and population genetic structure in the South African river goby, *Glossogobius callidus* Smith 1937 (Teleostei: Gobiidae) (3rd author, in collaboration with P. Maake, M. Mwale and S. Dippenaar).
- 2009: IUCN workshop, Red List assessment of marine fishes, Zoological Society, London.
- 2009: SANAP Symposium, University of Cape Town. *Contribution:* Molecular systematics and antifreeze biology of sub-Antarctic notothenioid fishes (3rd author and presenter, in collaboration with T.P. Moloi and M. Mwale).
- 2009: Second African Science Communication Conference, Johannesburg, South Africa. *Contribution:* Fish identification course for fisheries law enforcement officers: Communicating scientific principles and methods where none existed (1st Author and presenter, in collaboration with G. Gouws and M. Mwale).
- 2009: The 8th Indo-Pacific Fish Conference, Fremantle, Western Australia. *Contributions:* (1) Preliminary phylogenetic analysis of the cardinalfish genus *Siphamia* (Perciformes, Apogonidae) (1st author, in collaboration with G. Allen, G. Gouws and P. Dunlap). (2) Molecular systematics of *Glossogobius* Gill (Teleostei: Gobiidae) in South Africa (3rd author and presenter, in collaboration with P. Maake, M. Mwale and H. Larson). (3) A preliminary molecular phylogeny of *Apogon* and related genera: considering subgeneric designations and widespread species (2nd author, in collaboration with G. Gouws). (4) Mitochondrial DNA phylogeography of populations of endemic gobies in southern Africa (2nd author, in collaboration with M. Mwale, P. Maake, C. Mavimbela and N. Mjalu).
- 2009: SASSB 8th conference, Illovo Beach, KwaZulu-Natal. *Contributions:* (1) Phylogenetic relationships of *Glossogobius* species occurring in the southern African region (3rd author, in collaboration with P. Maake, M. Mwale and S. Dippenaar). (2) A preliminary molecular phylogeny of *Apogon* and related genera: considering subgeneric designations and widespread species (2nd author, in collaboration with G. Gouws and P. Maake).
- 2010: KZN Conservation Symposium 2010 – Conservation in Practice, Queen Elizabeth Park, Pietermaritzburg. *Contribution:* Cryptic species divergence in KwaZulu-Natal fishes (5th author, with P. Maake, E. Swartz, M. Mwale and B. Kramer).
- 2011: SASSB 9th conference, Rhodes University, Grahamstown. *Contributions:* (1) A platform for

- biodiversity information is a platform for science (2nd author, with W. Coetzer). (2) Revision of the cardinalfish genus *Siphamia* (Perciformes, Apogonidae): final report (1st author, with G.R. Allen & G. Gouws). (3) Many fish and many genes: what are they saying about Western Indian Ocean connectivity and biogeography? (7th author, with G. Gouws et al.) (4) Discovery and investigation of the occurrence of spinoid scales in the cardinalfish family Apogonidae (Pisces: Perciformes) (1st author, with M. Kraai). (5) Systematics of the ‘*Apogon unicolor*’ species group (Pisces: Apogonidae: Apogon) (2nd author, with M. Kraai). (6) Phylogeography of *Marcusenius pongolensis* (Mormyridae: Teleostei) in South Africa (4th author, with P.A. Maake et al.). (7) A molecular phylogeny and evolution of species of *Caffrogobius* (4th author, with M. Mwale et al.). (8) A molecular genetic approach to consider regional connectivity and differentiation of three goatfishes (*Parupeneus* spp.) in the Western Indian Ocean (4th author, with N. Springbok et al.).
- 2011: IUCN workshop, Red List assessment of west Pacific Apogonidae and Gobiidae, Korror, Republic of Palau.
- 2011: WIOMSA 7th Scientific Symposium, Mombasa, Kenya. *Contributions*: (1) The contribution of molecular data and a phylogenetic approach to the understanding the cardinalfish (Apogonidae) fauna of the Western Indian Ocean (1st author, with G. Gouws & M. Mwale). (2) A comparison of patterns of genetic differentiation among two damselfish species across the Western Indian Ocean (7th author, with G. Gouws et al.). (3) Regional connectivity and differentiation of three goatfishes (*Parupeneus* spp.) in the Western Indian Ocean (Poster, 5th author, with N. Springbok et al.)
- 2012: IUCN workshop, Red List assessment of marine fishes, Dakar, Senegal.
- 2012: XXXII SCAR Open Science Conference, Portland, Oregon, USA. *Contributions*: (1) Characterization of the freezing avoidance attributes of the sub-Antarctic notothenioid fish species (4th author, with T. Moloi, et al.) (2) Where have all the fish gone: could *Notothenia coriiceps* of the Prince Edward Islands be a victim of climate change (1st author, with M. Mwale & T. Moloi).
- 2013: The 9th Indo-Pacific Fish Conference, Okinawa, Japan. *Contributions*: (1) Fishes of the families Bathylagidae and Microstomatidae in the exclusive economic zone of New Zealand (1st author, with A. Stewart). (2) Evidence for the presence of spines in scales of the Apogonidae and its ontogenetic and phylogenetic significance (sole author). (3) Observations on the enigmatic tissue on the tongue of fishes of the genus *Siphamia* (Perciformes, Apogonidae) (poster, 1st author, with S. Pinchuck). (4) Progress towards a global molecular phylogeny for the cardinalfishes (family Apogonidae) (2nd author, with G. Gouws, A. Vagelli and G. Bernardi). (5) Cryptic species and unique lineages in a number of reef fish species in the Western Indian Ocean revealed by broad-scale phylogeographic studies (Poster, last author, with G. Gouws, M. Mwale, E. Duna, J. Bourjea, D. Muths, J. Mwaluma and S. Mayekiso).
- 2013: Microscopy Society of Southern Africa, 51st annual conference. *Contributions*: (1) The contribution of fine scale structure to understanding phylogenetic relationships of fishes (sole author). (2) An enigmatic tissue found on the tongue of cardinalfishes of genus *siphamia* (perciformes, apogonidae) (1st author, with S. Pinchuck).
Chair person: Poster session.
- 2014: Southern African Society for Systematic Biology, 11th meeting. Fishes of the family Bathylagidae from the seas around Southern Africa (1st author, with Mellissa Peyper).
- 2014: SANAP symposium. Re-evaluation of the taxonomic status of the three nototheniids found on both sides of Antarctic Polar Front (? Author, with T. Miya, M. Mwale & C.-H.C. Cheng).

New species descriptions

- Trachichthyidae - *Paratrachichthys heptalepis* (1984)
Epigonidae – *Epigonus* 2 spp. (1985)

Apogonidae - *Apogon pseudotaeniatus* (1986); *Cheilodipterus* 5 spp. (1993); *Lepidamia omanensis* (1995); *Archamia* 3 spp. (1995); *Jaydia striatodes* (1997); *Jaydia photogaster* (1998); *Gymnapogon melanogaster* (2002); *Apogon erythrosoma* and *Archamia flavofasciata* (2003); *Siphamia* 10 spp. (2012-14), *Pseudamiops springeri* (2013)
Linophrynidae – *Linophryne andersoni* (1992)
Mormyridae – *Marcusenius* 3 spp. (2014)
Soleidae – *Aseraggodes* 3 spp. (2006)
Microstomatidae – *Microstoma australis* (2014)
Bathylagidae – *Bathylagichthys kobylianskyi* (2014)
Total: 38

Committees and other appointments

1991: Organising committee of the Marine, Estuarine and Freshwater Ecosystems Conference, Grahamstown, South Africa.
1991 - 2003: Curation Committee of the J.L.B Smith of Ichthyology. Overseeing the development and maintenance of *Fishnet*, the computerised database of the Institute's fish collection. *Special project*: supervising the installation (1993/94) of network cables and hubs in the Institute.
1991 - 1995: Divestyle Magazine. Contributing journalist on marine life.
1994 - 1995: Computing Steering Committee of Rhodes University. Development of computing services at the university and its affiliated institutes.
1995: Technical Committee of the J.L.B. Smith Institute of Ichthyology. Computers.
1995: Editorial committee of the Phoenix magazine of the Albany Museum, Grahamstown.
1997: Organising committee of the PARADI & FISA African Fish and Fisheries conference, Grahamstown, South Africa.
2002: Organising committee of the 3rd congress of the Southern African Society of Systematic Biology, Grahamstown, South Africa.
2002 - 2012: Risk Manager of the South African Institute for Aquatic Biodiversity (formerly the J.L.B. Smith Institute of Ichthyology).
2003 - 2005: NEHAWU Shop Steward at SAIAB.
2007 - 2014: Curator of Marine Fishes at SAIAB.
2014: Curator Emeritus following retirement in November.

Professional societies

1985 - 1994: The Ichthyological Society of Japan.
1996: The American Society of Ichthyologists and Herpetologists (ASIH).
2000 - 2014: The Southern African Society of Systematic Biology (SASSB).
2010 - 2014: Western Indian Ocean Marine Science Association (WIOMSA)

Scholarships and travel grants

1984: German Academic Exchange Service (DAAD), Bonn, West Germany. *Host*: Dr W. Klausewitz, Senckenberg Museum, Frankfurt. *Purpose*: taxonomic study of the family Apogonidae in German fish collections.
1987: South African Foundation for Research Development. Travel grant to attend the BIOMASS post-SIBEX workshop, Cambridge, England.
1997: South African Foundation for Research Development. Travel grant to attend the Ninth International Congress of European Ichthyologists (CEI9)
1999: Smithsonian Institution, Washington, D.C., U.S.A. *Host*: Dr. V.G. Springer, Fish Division, U.S. National Museum of Natural History, Washington, D.C. *Purpose*: revision of the apogonid genus *Archamia*.
South African Foundation for Research Development. Travel grant to Washington, D.C.

- 2000: South African National Research Foundation. Travel grant to visit European museums.
- 2001: South African National Research Foundation. Travel grant to attend the 33rd anniversary conference of the Heinz Steinitz Marine Laboratory, Israel.
- 2003: Smithsonian Institution, Washington, D.C., U.S.A. *Host*: Dr. V.G. Springer, Fish Division, U.S. National Museum of Natural History, Washington, D.C. *Purpose*: revision of the apogonid genus *Siphamia*.
- 2009: South African National Research Foundation. Travel grant to attend the eighth Indo-Pacific Fishes Conference in Fremantle, Western Australia.
- 2012: Te Papa, National Museum of New Zealand. *Host*: Dr. C. Roberts, Curator of Fishes. *Purpose*: Chapters on the Bathylagidae and Microstomatidae for a book on the fishes of New Zealand.
- 2013: South African National Research Foundation. Travel grant to attend the ninth Indo-Pacific Fishes Conference in Okinawa and research visits to fish collections in Japan and Taiwan.

Research Cruises and Expeditions

- 1984: South African SIBEX I cruise to Prydz Bay, Antarctica, aboard the SA *Agulhas*.
- 1985: South African SIBEX II cruise to Prydz Bay, Antarctica, aboard the RV *Africana*.
- 1985-1990: Marion Island relief cruises, aboard the SA *Agulhas*.
- 1994: Sea Fisheries Research Institute krill research cruise to South Georgia, aboard the RV *Africana*.
- 1997: Inhaca Island, Mozambique; hosted by the University of Eduardo Modlande, Maputo.
- 2004: ICEFISH 2004 cruise aboard the *N.B. Palmer* to the Atlantic sector of the Southern Ocean.
- 2009: Marion Island relief cruise, aboard SA *Agulhas*.
- 2011: Marion Island relief cruise, aboard SA *Agulhas*.
- 2012: Marion Island relief cruise, aboard SA *Agulhas*.

Teaching

- 1996-1998: Rhodes University, Department of Ichthyology, Honours class. Course 1: Anatomy, form and function of fishes; Course 2: Species and speciation.
- 1998-2012: Rhodes University, Department of Ichthyology, Honours class. Course: Fish systematics.
- 2005-2007: University of Fort Hare, Department of Zoology, 3rd year class. Course: Introduction to Marine Fishes.
- 2008-2012: Fish identification course for law enforcement officials of the South African Department of Agriculture, Fisheries and Forestry.
- 2013: SAIAB, Fish identification course for Phuglisa students.
- 2014: SAIAB, Fish identification course for Phuglisa students.
- 2014: University of Fort Hare, Department of Zoology, Honours class. Course: Fish identification.

Contributions to SET Awareness

SciFest Activities

- 2000: 2-4 April, SAIAB, workshop; topic: Fish, how they do what they do.
- 2001: 28-31 March, SAIAB, Scientist in Residence, open my lab to the public and answering questions about fishes and science in general.
- 2002: 18 March, SAIAB, lecture; topic: Scuba diving and underwater photography as scientific tools.
- 2003: 28 March, SAIAB, lecture; topic: The marine fauna of the Prince Edward Islands.
- 2004: 19 March, SAIAB, lecture; topic: From chemistry to ichthyology - The work of fishy "Doc" and "Mama" Smith.
- 2005: 16-22 March, SAIAB, Ask-A-Scientist, Interactive Exhibition on Dangers of Sea and Shore.

Public Lectures

- 2002: 31 July, Port Elizabeth, Wildlife and Environment Society of South Africa; topic: The marine Life of the Prince Edward Islands.
- 2002: 10 October, Port Elizabeth, Mountain Club of South Africa; topic: The marine Life of the Prince Edward Islands.
- 2002: 15 October, DIAZ Bird Club, Grahamstown; topic: The marine Life of the Prince Edward Islands.
- 2006: 20 June, Photo club, Tel-Aviv, Israel; topic: Marine conservation at the Prince Edward Islands, Southern Ocean.
- 2006: 23 June, Kibbutz Eilot, Israel; topic: Vertebrate biodiversity at South Africa's Prince Edward Islands.
- 2011: SA Agulhas, cruise 156; topic: Molecular systematics and freezing avoidance of sub-Antarctic notothenioid fishes.
- 2012: 23 February, DIF/SAIAB; topic: Could *Notothenia coriiceps* of Marion Island be a victim of climate change?
- 2012: SA Agulhas, cruise 159; topic: The search for *Notothenia coriiceps* in the Prince Edward Islands.
- 2012: 15 August, Tropical Marine Science Institute of this country on St. John Island, Singapore; topic: Systematics of the cardinalfish family Apogonidae: history and science.
- 2013: 19 July, National Museum of Marine Biology & Aquarium, Checheng, Taiwan; topic: The search for the coelacanth.
- 2013: 25 August, Academia Sinica, Tawian; topic: Using fine scale structure to elucidate phylogenetic relationships of fishes.
- 2014: 27 March, SAIAB; topic: The taxonomy of bathylagid fishes of the Southern Hemisphere.
- 2014: 5 August, University of Walter Sisulu; topic: Evidence for the presence of spinoid scale in the Apogonidae and its ontogenetic and phylogenetic significance.

Media interviews

- 2002: SABC 50/50 - answering public questions on Veld Focus regarding fish parasites and the behaviour of clown fishes.
- 2007: SABC3 evening news – Moving the national fish collection.
- 2007: Die Burger newspaper – The new collection building of SAIAB.

Summary of publications

- Peer reviewed papers and book chapters – 94 (including 7 in press; 72 as first author)
- Conference proceedings – 2
- Scientific reports – 5
- Popular science articles – 58
- Book reviews – 1
- SAIAB Internal publications – 3