

CURRICULUM VITAEName: **Michael P. Franklin**

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Work

Department of Biology
 California State University Northridge
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E-Mail Address: FishPhD@aol.com**EDUCATION**

- 1997: Ph.D. University of California, Santa Barbara (Biology/Marine Ecology)
 Dissertation: An Investigation into the Population Structure of White Seabass (*Atractoscion nobilis*), in California and Mexican Waters Using Microsatellite DNA Analysis.
 Advisor: Dr. Alfred W. Ebeling
- 1991: M.S. California State University, Northridge (Biology)
 Thesis: Abundance, Distribution, Age, and Growth of Young-of-the-Year White Seabass, in the Southern California Bight, 1988 and 1989.
 Advisor: Dr. Larry G. Allen
- 1987: B.A. California State University, Northridge (Biology)

SCHOLARSHIP AWARDS & GRANTS

- Spring 1990 - Office of the Chancellor, Calif. State University, California Pre-Doctoral Scholarship.
- Summer 1990 - Office of the Chancellor, Calif. State University, Internship at the University of California, San Diego, and Scripps Institution of Oceanography.
- Fall 1990 - Spring 1994, Graduate Division, UC Santa Barbara, Doctoral Scholars Fellowship, UC Santa Barbara.
- Spring 1991 - Summer 1991, Graduate Division, UC Santa Barbara, Summer Academic Research Internship (SARI) mentor program, UC Santa Barbara.
- Summer 1991 (June) UCSB summer research internship
- Summer 1991 (June), Los Angeles County Fish and Game Commission: "The molecular genetics of white seabass (*Atractoscion nobilis*) populations" (with Alfred W. Ebeling).
- Summer 1991 (June), New York Museum of Natural History, Lerner-Gray Fund for Marine Research: "The molecular genetics of white seabass (*Atractoscion nobilis*) populations".
- Fall 1991 (September), UCSB Faculty Research Committee (Ebeling and Franklin) "The molecular genetics of white seabass (*Atractoscion nobilis*) populations".
- Fall 1994-Summer 1995, UCSB Graduate Division, Graduate Research Mentor Fellowship.
- Spring 1994-Summer 1995, (with Kenneth C. Jones, CSU Northridge) California Department of Fish and Game, "An Investigation of the Genetic Diversity Within and Between Natural Populations of White Seabass (*Atractoscion nobilis*) in California and Mexican Waters, OREHP grant #FG33396MR.
- Spring 1997, (with Larry G. Allen, Brian Buaas, and Gregory Benavides, CSU Northridge) Los Angeles Rod and Reel Club, "An Investigation in to the Population Genetics of Kelp Bass (*Paralabrax clathratus*), Barred Sand Bass (*Paralabrax nebulifer*), and Yellowtail (*Seriola lalandi*) from California and Baja California.
- Fall 1998, "An Investigation of the Impacts of the Harbor Expansion Project on Local Marine Fish Populations". Pitzer College, Joint Sciences Department, Claremont Colleges.

Fall 1999, "A Continuation of an Investigation of the Impacts of the Harbor Expansion Project on Local Marine Fish Populations". Pitzer College, Joint Sciences Department, Claremont Colleges.

Spring 2000, "Catalina Island Fisheries Project", Wrigley Institute for Environmental Studies (WIES), administered by the University of Southern California

Fall-Winter 2003, "Seasonal Variation in Bacterial Concentration in the Vicinity of the Los Angeles River", administered by the Southern California Marine Institute, and funded by the William J. Reid Foundation.

TEACHING AND EMPLOYMENT EXPERIENCE

2004 - present: Lecturer, California State University, Northridge. Biology 100, 101, 102 (non majors), 322 (upper division core), 325 (non majors), 421 (lecture, lab, and field), 527 (lecture, lab, and field), and 530 (lecture, lab, and field)(majors). Support graduate marine studies students, and a participant with the TNE Science Strand.

2001 - 2004: Lecturer California State University, Bakersfield AV Satellite campus. Teaching Science 316, Science 370a, and Biology 320. Also involved with academic administration and grant proposal preparation.

2000 - 2003: Coordinator of Federal Contracts, Southern California Marine Institute. Supervise research activities for federal grants (water quality assessment, volunteer monitoring, coordination of volunteer effort, etc.).

2000 - 2002: Distance Learning Instructor, Biology 195, Calif. State University Dominguez Hills.

1998 - 2000: Visiting Assistant Professor, Claremont McKenna College, Joint Sciences Department. Teaching courses in Marine Ecology and Marine Biology for majors and non-majors. Biology Laboratory Instructor (43 & 44). Senior thesis advisor.

1994 - 2001: Calif. State University Northridge, lecturer. Biology and Marine Biology (for majors and non-majors). Biology 100 series, Life in the Sea (non-majors), Marine Biology (majors), Population (now Evolutionary) Biology. Course numbers provided above.

1997 - 1998: advisor for biology majors, CSU Northridge.

1996 - 1999: Principle Investigator, White Croaker Survey/Angling Pressure Survey off Palos Verdes, California. Southern California Marine Institute, San Pedro CA.

1996 - 1997: part-time faculty, lecturer/lab instructor, Moorpark College. General Biology, Marine Biology.

1996 - 2003: Field consultant, fishery survey with Dr. Milton Love, UC Santa Barbara.

1991 - 1997: UC Santa Barbara, research assistant. Conducting dissertation research on white seabass population dynamics.

1995 - 1999: Calif. State University Los Angeles, lecturer. General Ecology (majors), Evolution (majors), General Biology (majors), Writing for Biologists (majors), and Ichthyology (majors).

1992 - 1994: UC Santa Barbara, teaching assistant. Undergraduate labs (Bio 1,2,3 and 4A, 4B, and 4C).

1991 - present: Calif. State University, Northridge, research associate in genetics/recombinant DNA laboratory (dissertation research), and collection of marine fishes.

1989 - 1992: Ocean Studies Institute admin. by Calif. State University, Long Beach. Instructional support technician, assistant on R/V YELLOWFIN.

1987 - 1990: Calif. State University, Northridge, part-time faculty. Lab instructor, Biology 100, 101, 106, 107. Graduate Assistant for Ichthyology, Biology of Pelagic Organisms, Ecology and Behavior of Marine Fishes, and Marine Ecology.

1982 - 1986: Asst. Operations Officer, in the banking industry (includes cash handling and development of supervisory skills).

RESEARCH EXPERIENCE

2000 - 2004: Coordinator of volunteer efforts, Water Quality Assurance Projects, Los Angeles River and Los Angeles/Long Beach Harbor.

2000 - Consultant, Wrigley Institute for Environmental Studies, USC, The Biology of Sport and Recreational

Fisheries of Catalina Island.

1999 - Research Associate, Southern California Marine Institute (SCMI). Investigation of nearshore marine fish population dynamics. Harbor expansion effects on nearshore fish assemblages. Water quality assessment.

1999 - 2001: Principle Investigator, Investigation of harbor improvements on nearshore fish assemblages in the Long Beach harbor complex. Pitzer College, and SCMI Southern California Marine Institute.

1998 - Ichthyology consultant. Big Bight Survey, Southern California Coastal Research Water Project.

1996 - 1999: Principle Investigator, Survey of Angling Pressure off Palos Verdes; White Croaker Survey off Palos Verdes, Southern California, SCMI Southern California Marine Institute.

1991 - 1997: Analysis of the population structure of the white seabass in California and Mexican waters. (graduate research).

1990 Consultant for fisheries project, "Study of the marine fisheries of Kiribati", for The Pacific Islands Marine Resources Project (PIMAR).

1987 - 1990: Cruise director, Research assistant, studies on the population dynamics, distribution, abundance, and recruitment of young-of-the-year white seabass and California halibut. (with Dr. Larry G. Allen, OREHP Grant #75000).

Master's Thesis research; Study of age determination, and recruitment of white seabass along the coast of southern California and some of the Channel Islands. (Dr. Larry G. Allen, chair, OREHP Grant #75000).

1986 - 1988: Research and field assistant, monitoring study of the fish populations of the newly restored portion of upper Newport Bay (with L. G. Allen).

1984 - 1986: Field assistant on various research projects for L. G. Allen, and for some of his graduate students.

1982 - 1983: Consultant for fish farming project, in Chiapas, Mexico (design and implementation of viable aquaculture system, for Rev. Loren Riebe).

1979 - 1981: Volunteer field assistant aboard the R/V VANTUNA (mainly for Dr. Ed Tarvyd, Santa Monica College).

RESEARCH INTERESTS

Recruitment dynamics and management of the white seabass, croakers, pipefishes, and sea basses, and other local sport and commercial fishes.

The development, systematics, population, and subpopulation structure of the white seabass, giant sea bass, yellowtail, and others, along the coast of southern California and Mexico.

The application of current recombinant DNA technology (RFLP and microsatellite DNA analysis) to marine fisheries science. General fisheries biology and ecology. Analysis of central California salmonid population dynamics using molecular techniques.

The ecology of the nearshore marine fishes of the Gulf of California.

Human impacts and effects on nearshore marine fish populations.

Establishing or contributing to a center for molecular based population studies.

PUBLICATIONS

1988 Distribution and abundance of young-of-the-year white seabass, *Atractoscion nobilis*, in the vicinity of Long Beach Harbor, California in 1984-1987. California Fish and Game, 74(4)245-248 (with Larry G. Allen)

1992 The abundance, distribution, and settlement of young-of-the-year white seabass, *Atractoscion nobilis*, in the southern California Bight, 1988 and 1989.(with Larry G. Allen). Fishery Bulletin U.S. 1993, Vol. 90 (4), 633-641 (with Larry G. Allen).

2000 The Biology of Sport and Recreational Fisheries of Catalina Island. Wrigley Institute for Environmental Studies, University of Southern California.

2005 An Investigation of the effects of dietary supplemented L-arginine on the growth of hatchery reared juvenile white seabass (*Atractoscion nobilis*). California Fish and Game, 91(1), with Eric F. Miller.

PAPERS SUBMITTED FOR PUBLICATION

2005 Analysis of natural and hatchery populations of white seabass, *Atractoscion nobilis*, in southern California and Mexican waters using microsatellite DNA analysis. Fishery Bulletin U.S.

PAPERS IN PREPARATION

Age determination, growth, and lunar periodicity of young-of-the-year white seabass, *Atractoscion nobilis*, in the southern California Bight, 1988 and 1989. (with L.G. Allen).

Management of local white seabass (*Atractoscion nobilis*) populations: The use of molecular tools to examine population structure.

PAPERS PRESENTED AT SCIENTIFIC MEETINGS

1988 Distribution and abundance of young-of-the-year white seabass, *Atractoscion nobilis*, in the vicinity of Long Beach Harbor, California, in 1984-1987. VII International Symposium of Marine Biology, Universidad Autonoma Baja California, Sur. La Paz, Mexico.

1989 Recruitment of young-of-the-year white seabass (*Atractoscion nobilis*) along the southern California coast from Pt. Conception to San Mateo Pt. in 1988. Southern California Academy of Sciences (SCAS), California Lutheran University, Thousand Oaks (with L.G. Allen)

1990 Recruitment of young-of-the-year white seabass (*Atractoscion nobilis*) along the southern California mainland and Channel Island coastlines, May-August, 1989. Annual Meeting. American Society of Ichthyologists and Herpetologists (ASIH), Charleston, South Carolina (with L.G. Allen).

Presentation with same title at the VIII International Symposium of Marine Biology, Universidad Autonoma de Baja California, Ensenada, Baja California, Mexico (with L.G. Allen).

1991 Age determination and growth of young-of-the-year white seabass *Atractoscion nobilis*, in the southern California Bight, 1988 and 1989. Annual meeting. American Society of Ichthyologist and Herpetologists (ASIH), New York, New York.

1993 Patterns of distribution and Abundance of young-of-the-year Kelp bass (*Paralabrax clathratus*) and white seabass (*Atractoscion nobilis*) in southern California from 1989 to 1991. Poster at the Western Society of Naturalist (WSN), Annual meeting, Monterey Calif. (with L.G. Allen and J.F. Cordes).

2001 Coordination of Volunteer Monitors and Data Collection. Southern California Regional Water Quality Board, Bi-annual meeting, Los Angeles, California.

THESIS AND STUDENT PROJECTS

1998 *Michael Asakawa-CMC "Florida's Blue Revolution: A Case Study of Aquaculture Development in a

Coastal State”

- **April Collier-Scripps “The Effects of Metabolic Response to Low Temperature on Competition Between *Hemigrapsus oregonensis* and *Carcinus maenas*”
- **Sara Lowe-Scripps “The Effects of Different Water Types on Growth and Maturation in *Brachinecta lindahli* and *B. longiantenna* (Anostraca)”
- **Eric Miller-Pitzer “The Effect of Dietary Supplemented L-Arginine on White Seabass (*Atractoscion nobilis*)”
- **Jacqueline Newman-Scripps “An Investigation of the Diversity and Abundance of Species in Zone 2 of The Rocky Intertidal Zone Both North and South of Point Conception”
- *Kelly-Ann Pokrywa-Pitzer “Recent Population Declines in the Sea Otter: What They Reveal About Man’s Impact on the Oceans”
- *Paul Seilo-CMC “A Bleaching Event Among a Cohort of *Tridacna gigas*, White Lady Bay, Magnetic Island, Australia”
- **Michelle Takayama-CMC “The Effect of Elevated Temperature on Ten Strains of Symbiotic Zooxanthellae in Culture”.

1999 #Amy Foote- California State University, Northridge; Distribution patterns and physical and chemical Factors affecting Blacksmith larvae (*Chromis punctipinnis*) of northeast Side of Santa Catalina Island.

#Karen E. Kesterson- California State University, Northridge; A Rapid Polymerase Chain Reaction (PCR) Method to Detect *Flexibacter maritimus* in Marine Aquaculture.

#Amy M. McClean- California State University, Northridge; An Investigation of the Settlement Patterns of a Temperate Reef Fish, *Paralabrax clathratus*, at Catalina Island, California.

**Tara Bailey-Pitzer - “Abundance and Distribution of White Croaker and California Halibut in the Long Beach Harbor”

*Annie Birnie-CMC - “Fisheries Management Using Case Studies from South Caicos and Columbia River Fisheries”.

**Erin Conlisk-CMC - “Preference of *Riberioa spp.* Parasite for Goldfish or Tadpole.”

**Ryan Haight- CMC - “Effect of Lateral Line Infection of *Riberioa spp* on Goldfish”

*Brynn Munding-Pitzer- “Tumor Angiogenesis and the use of Shark Cartilage in the Treatment of Cancers.”

**Mckenzie Neil-Scripps - “An Examination of Toxin Levels in Sediments and its Effects on Spotted Turbot *Plueronichthys ritteri*”.

**Jamie Trubia-Scripps - “Food Habit Analysis of White Croaker and California Halibut from the Long Beach Harbor Complex”

2004 #Eric Miller- California State University, Northridge; The Influence of Group Size on the Mating System of Captive Spotted Sand Bass (*Paralabrax maculatofaciatus*) and Investigations into the Viability of a Captive Breeding Program.

* **One Semester Library Thesis** ** **Two Semester Research Thesis** #**Master’s Thesis**

Claremont Colleges: CMC-Claremont McKenna College, Pitzer-Pitzer College, Scripps-Scripps College

ORGANIZATIONS AND MEMBERSHIPS

Vice President of the Biology Graduate Student Association (BGSA, CSU Northridge) 1989 - 1990; American Association for the Advancement of Science (AAAS) 1990 - present; American Society of Ichthyologists and

Herpetologists (ASIH), served 2 yr. term as grad student recruitment advisor for ASIH 1991 - 1993, current member; American Fisheries Society, current member; International Oceanographic Foundation (IOF); Southern California Academy of Sciences (SCAS); Western Society of Naturalists (WSN); current representative of California State University, Northridge on the Advisory Board of the Marine Science Educator's Alliance (MSEA).

OTHER CERTIFICATIONS

Professional Association of Dive Instructors (P.A.D.I.) and CSU, scuba diving certifications, over 400 dives logged.

Scientific collecting permit, California Department of Fish and Game.

REFERENCES*

*Alfred W. Ebeling, Ph.D. Emeritus
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Santa Barbara, Calif. 93106

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*Kenneth C. Jones, Ph.D., Emeritus
Genetic Identification Services
9522 Topanga Canyon Blvd.
Chatsworth, Calif. 91331-4011
(818)718-9600

*Robert Pinnell, Ph.D., Professor/Chair
W.M. Keck Science Center, 925 North Mills Ave.
The Claremont Colleges
Claremont, CA 91711
(909)607-2900

*Larry G. Allen, Ph.D., Professor
Department of Biology
Mills Ave
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Northridge, Calif. 91330
(818)677-3356

*Donald McFarlane, Ph.D., Professor
W.M. Keck Science Center, 925 North
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* - others are available as references.