

Carlos Mireles

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Research Experience

March 2004- June 2006 Cal Poly Bio. Sci. Dept. San Luis Obispo, CA

Fisheries Research Technician

- Assisted in development of a collaborative cabezon tagging study as partial fulfillment of senior project requirement
- Tagged and released 1240 cabezon in the Morro Bay area
- Logged 120 hrs. of boat time
- Developed a public awareness program
- Data reduction and analysis
- Application of GIS computer analysis

Fall Qtr. 2004 California Polytechnic State University San Luis Obispo, CA

- **Student in General Ecology:** Marked and recaptured sow bugs, Analysis of population and movement patterns
- **Student in Animal Behavior:** Tagged and collected data on monarch butterflies at over-wintering grounds in Oceano, CA

Work Experience

March 2004-April 2005 The Abalone Farm Inc. Cayucos, CA

Research Assistant on Cabezon Rearing Investigation

- Rearing of cabezon (*Scorpaenichthys marmoratus*)
- Investigated methods of externally sexing cabezon
- Maintenance of filter and pumping systems
- Culturing of rotifers and artemia in preparation as larval feed

Teaching Experience

August 2006- Dec.2006 California State University Long Beach Long Beach, CA

- Introduction to Marine Biology Lab Section (Bio. 153)

Education

August 1999-June 2002 Cuesta Community College San Luis Obispo, CA

- Academic Honors in Spring 2001, Fall 2001, and Spring 2002

2002-2005 California Polytechnic State University San Luis Obispo, CA

- Bachelors of Science Ecology and Systematic Biology with a concentration in Marine Biology and Fisheries Resource Management

August 2006- Present California State University Long Beach Long Beach, CA

- Masters of Science candidate in Biology

Relevant Courses

- Marine Biology, Ecology, Ichthyology, Fisheries Ecology, Fisheries Science & Resource Conservation, Aquaculture, Animal Behavior, Invertebrate Zoology, Environmental Physiology, Survey of Organic Chemistry, Wildlife Conservation Biology, Biogeography, Applied Statistics for Life Sciences, Applied Expression Design/ Regression Models, Applications in GIS

Research Interests

- Behavioral ecology and population ecology of fishes. Examining the possible relationships between natural characteristics of fish (ie. size, sex) and environmental conditions on movement patterns and distribution, utilizing conventional and acoustic tagging methods.

Skills

- **Certifications:** PADI open-water scuba (2002), enriched-air (nitrox) (2003), NAUI Master Diver (2006), American Academy of Underwater Sciences (AAUS) (2006), First Aid and CPR (2006), CA Dept. of Boating & Waterways safety examination (2006)
- **Field Methods:** Free diving (started in 1998), Small vessel (< 24 ft) maintenance, towing, and operating experience, Recreational fishing experience (20 yrs), GPS navigational equipment and depth sonars
- **Computing:** Adept knowledge in Arc Map, and Arc Catalog GIS computer programs, Microsoft Word, Excel, Access, Powerpoint, Photoshop, and Minitab
- **Other:** Fluent in reading, oral, and written Spanish

Professional talks and posters

- Marine Interest Group (MIG Committee) Meeting (April, 2005) Status Report and Findings of a Collaborative Cabezon Tagging Study. Morro Bay, California (talk)
- Cal Poly, College of Science and Mathematics (COSAM) Annual Research Meeting (May, 2005) Movement Patterns and Fishing Parameters of the Commercially Important Cabezon (*Scorpaenichthys marmoratus*). San Luis Obispo, California (talk)
- Western Society of Naturalists Annual Meeting (November, 2005) Site Fidelity, Home Range, and Homing Behavior of Cabezon (*Scorpaenichthys marmoratus*) on the South Central Coast of California. Seaside, California (poster)
- Western Society of Naturalists Annual Meeting (November, 2006) Site Fidelity, Home Range, and Homing Behavior of Cabezon (*Scorpaenichthys marmoratus*) on the South Central Coast of California. Redmond, Washington (talk)

Professional Societies

- Western Society of Naturalists (2003- Present)

References

Dr. Christopher Lowe, Professor
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website: <http://www.csulb.edu/web/labs/sharklab/>

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