

ANDRES CARRILLO

CURRICULUM VITAE (November 2014)

Department of Ecology and Evolutionary Biology
University of California (SH-321)
Irvine, CA 92697-2525

Graduate Student
Phone: 714-390-0305
Email: andresc2@uci.edu

EDUCATION

- In Progress **University of California, Irvine**
Ph.D. in Ecology and Evolutionary Biology. *Advisor: Matthew J. McHenry*
- 2013 **California State University, Fullerton**
M.S. in Biology. *Advisor: Kathryn A. Dickson*
- 2007 **California State University, Fullerton**
B.S. in Biological Science, *concentration: marine biology*

RESEARCH AND TEACHING

RESEARCH POSITIONS

- 2002 to 2013 **Laboratory Research and Animal-Care Assistant**, Aquatic Nursery, Cabrillo Marine Aquarium, San Pedro, CA. *Supervisor: Kiersten O. Darrow*
- 2007 **Student Researcher**, Algae and Water Quality Research Unit, Department of Biology, Chiang Mai University, Thailand. *Advisor: Siripen Traichaiyaporn*
- 2006 **Student Researcher**, Reef Ecology and Conservation Lab. Departamento da Sistemática e Ecológica, Universidade Federal da Paraíba, Brazil. *Advisor: Irece M. L. Rosa*
- 2004 to 2007 **Southern California Ecosystems Research Program Scholar**, California State University, Fullerton (NSF-UMB, *PI: Bill Hoese*). *Advisor: Kathryn A. Dickson*

COURSE INSTRUCTION

- 2012 to 2014 **Graduate Teaching Assistant**, Department of Ecology and Evolutionary Biology, University of California, Irvine, CA
 Physiology Laboratory – Bio Sci E112L (×2)
 Evolution and Ecology – Bio Sci E106 (×1)
 Organisms to Ecosystems – Bio Sci 94 (×1)
 Anatomy Laboratory – Bio Sci 170 (×1)
- 2009 to 2012 **Graduate and Teaching Associate**, Department of Biological Science, California State University, Fullerton, CA
 Comparative Animal Physiology – Biol 468L (×1)
 Mammalian Physiology – Biol 362L (×4)
 Evolution and Biodiversity – Biol 171L (×3)
 Biology for Future Teachers – Biol 102A (×2)
 Elements of Biology Laboratory Instructor – Biol 101L (×2)

OUTREACH

- 2014 **Spurgeon Middle-School, McHenry Lab Outreach Program**, Santa Ana. Lectured on fish suction-feeding and fish species radiation. Provide hands-on activity to engage students in research topics on morphology and speciation (25 middle-school students, ×5)
- 2013 **The East Los Angeles Community Union, Upward Bound Program Instructor**, Biola University. Lectured on fish diversity and locomotion and designed activities associated with topics (32 high-school students, ×2)
- 2012 **Kids to College Program Instructor**, California State University (CSU) Fullerton Labs. Provided college-level course and lab experiences to promote educational retention to local middle-school students (36 students)
- 2011-present **Southgate Middle-School Research Program Mentor**, Aquatic Nursery, Cabrillo Marine Aquarium. Direct ten-week program designed to introduce student, from an under-privilege area, to marine science research. (up to 100 students per year, ×3)
- 2011 **Gear Up Program Leader**, CSU Fullerton Labs. Led college-level laboratory experiences to high-school students in program dedicated to increase retention. (20 high school students, ×3)
- 2010 **Young Men in Science Leader**, Catalina Marine Station, University of Southern California. Discussed research opportunities available to minority students and led free-diving activities (20 middle-school students)
- 2009 **Howard Hughes Medical Institute, Student Research Leader**, CSU Fullerton Labs. Instructed students to compare biochemical assessments between different fish muscles. (6 undergraduate and 2 high-school students)

GUEST LECTURES

- 2011 **Evolution and Biodiversity**, CSU Fullerton. Guest lecturer (2-hour lecture): “State of world’s fisheries.”
- 2007 **Fisheries Aquaculture**, Maejo University, Thailand. Invited guest speaker (2-hour lecture): “Aquaculture in marine systems in California.”

HONORS, AWARDS, and GRANTS

- 2014 and 2011 **Broadening Participation Committee Travel Award**, Society for Integrative and Comparative Biology (SICB). *\$500 travel funds*
- 2013 and 2014 **Faculty Mentor Program, Honorable Mention**, Graduate Divisions, University of California (UC), Irvine. *\$1000 stipend*
- 2013 to 2017 **Chancellor’s Incentive Doctoral Program**, The California State University. *Forgivable loan program, up to \$10,000 per year*
- 2012 to 2017 **Graduate Opportunity Fellowship**, Graduate Divisions, UC Irvine. *\$3000 per summer*
- 2012 **Competitive Edge Scholar**, Graduate Divisions, UC Irvine. *\$5000 summer stipend*

- 2012 **Outstanding Graduate Student Award**, Alumni Association, CSU Fullerton. \$1500 award
- 2012 **Kenneth Goodhue-McWilliams Award in Teaching Excellence-Metamorphosis**, Department of Biological Science, CSU Fullerton. \$500 award
- 2011 **D. Dwight Davis Award**, Best student presentation, Division of Vertebrate Morphology, SICB 2011. \$250 award
- 2011 **Council on Ocean Affairs, Science and Technology**, The California State University. \$500 Travel funds
- 2011 **Coppel Graduate Science Award**, Department of Biological Science, CSU Fullerton. \$500 award
- 2010 to 2011 **CSU Equity Fellowship**, The California State University. \$2,500 stipend
- 2010 to 2011 **Southern California Academy of Science, Student Research Grant**. \$2,000 research supplies
- 2010 to 2011 **Hillman and McClanahan Scholarship in Plant or Animal Physiology**, Department of Biological Science, CSU Fullerton. \$500 award
- 2009 to 2010 **Sally Casanova Pre-doctoral Fellowship**, The California State University. \$3,500 travel award
- 2008 and 2009 **Christiane Rinkes Memorial Fund Scholarship**, Friends of Cabrillo Marine Aquarium. \$500 scholarship
- 2006 **Creative Activity and Research Grant**, CSU Fullerton Associated Student Inc. \$2,600 travel/research support
- 2005 **Best student presentation in Ecology**, Southern California Academy of Science. \$200 award

PUBLICATIONS

- Carrillo, A.**, Almasarweh, F.A., Bansuan, H., Miranda, A., and K. A. Dickson (In Preparation). Effects of extended embryonic incubation on morphology, feeding activity, and post-hatching growth of larval California grunion, *Leuresthes tenuis*. Intended journal: *Journal of Experimental Biology*
- Vargas, F. A., **Carrillo, A.**, and K. A. Dickson (In Preparation). Effect of sand temperature fluctuations on hatching success, larval length, and yolk area in the California grunion, *Leuresthes tenuis* (Teleostei:Atherinopsidae). Intended journal: *Environmental Biology of Fishes*
- Carrillo, A.**, Almasarweh, F.A., and K. A. Dickson (2011). Does embryonic incubation time affect morphology and feeding activity of California grunion larvae? *Abstract Bulletin of the Southern California Academy of Sciences* 110 (2): 71
- Carrillo, A.**, and K. A. Dickson (2007). Burst-swimming performance and metabolic enzyme activities in larval and juvenile white seabass (*Atractoscion nobilis*). *Abstract Bulletin of the Southern California Academy of Sciences* 106 (2): 121
- Carrillo, A.**, and L. Buena (2005). The effects of artichoke thistle (*Cynara cardunculus*) density and coastal sage scrub influence on predation of artificial nests. *Abstract Bulletin of the Southern California Academy of Sciences* 104 (2): 31

PRESENTATIONS (Since 2009)

- Carrillo, A., Garcia, D. A., and M. J. McHenry (2014). The role of the lateral line system in foraging by zebrafish larvae on mobile prey. Oral presentation, SICB annual meeting, Austin, Texas.
- Carrillo, A., Vargas, F. A., Hulse, K., Hokersmith, B., and K. A. Dickson (2013). Effects of extended incubation on post-hatching growth of larval California grunion. Poster, SICB annual meeting, San Francisco, CA.
- Carrillo, A., Vargas, F. A., Hulse, K., Hokersmith, B., and K. A. Dickson (2011). How do variable ambient temperatures during embryonic incubation affect development and hatching in California grunion? Poster, Western Society of Naturalists (WSN) annual meeting, Vancouver, WA.
- Carrillo, A., Aryafar, H., Treybig T. A. and K. A. Dickson (2011). Effects of extended incubation in the California grunion, *Leuresthes tenuis*. Oral Presentation, SCAS annual meeting, Cal Poly, Pomona, CA.
- Carrillo, A., Almasarweh, F., and K. A. Dickson (2011). Does extended incubation affect morphology and feeding ability of larval California grunion, *Leuresthes tenuis*? Oral Presentation, SICB annual meeting, Salt Lake City, UT.
- Carrillo, A., Bansuan, H., Miranda, A., Treybig, T., and K. A. Dickson (2010). Effects of extended incubation on morphology and feeding activity of the California grunion, *Leuresthes tenuis*. Oral Presentation, WSN annual meeting. San Diego, CA.
- Carrillo, A., Treybig, T., and K. A. Dickson (2009) Effects of delayed hatching on muscle and skeletal development and feeding rates in the California grunion, *Leuresthes tenuis*. Poster, WSN annual meeting. Monterey, CA.
- Carrillo, A., Aryafar, H., Treybig, T., and K. A. Dickson (2009) Effects of extended incubation in the California grunion, *Leuresthes tenuis*. Oral Presentation, Annual Larval Fish Conference, Santa Fe. NM

SYNERGISTIC ACTIVITIES

- 2007-present Research Volunteer Mentor, Aquatic Nursery, Cabrillo Marine Aquarium. (up to 12 high-school students per year)
- 2009-present Guest-scientist instructor, Acacia Elementary School, Rolling Hills Elementary School,
- 2013 Mentor for undergraduate-student researcher, David A. Garcia – UC Irvine Bridges Scholar
- 2009-2013 Mentor for three undergraduate-student researchers, Fernando Vargas – NSF-UMB Scholar, Fatemah Almasarweh, and Omid Hammad, CSU Fullerton
- 2009-2011 Chair and Inter-Club Council Representative for the Biology Graduate Student Club (BGSC) at CSU Fullerton

PROFESSIONAL AFFILIATIONS

- 2014-present American Physiological Society (APS)
- 2009-present American Institute of Fisheries Research Biologists (AIFRB)

2008-present Western Society of Naturalists (WSN)
2006-present Society of Integrative and Comparative Biology (SICB)
2005-present Southern California Academy of Sciences (SCAS)
2005-2011 Society for the Advancement of Chicanos and Native American in Science (SACNAS)