

Jorge F. Cornejo-Donoso
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Ph.D. in Marine Science

EDUCATION

- 2016 Ph. D., Interdepartmental Graduate Program in Marine Science, University of California Santa Barbara.
- 2000 Marine Biologist, minor in Oceanography and Environmental Quality, University of Concepcion, Chile.
- 1998 Bachelor in Marine Science, University of Concepcion, Chile.
Undergraduate Thesis: Distribution and biomass of mysids in Coliumo bay, Chile.

TEACHING EXPERIENCE

- 2016 Lecturer (Instructor of Record), Department of Ecology Evolution and Marine Biology, UCSB.
Class: Concepts and Controversies in Biology (EEMB 22 – Spring)
Class: Introductory Biology Diversity of Life (EEMB 3 – Fall)
- 2015 Teaching Associate, Department of Ecology Evolution and Marine Biology, UCSB.
Class: Introductory Biology Diversity of Life (EEMB 3 – Fall)
- 2015 Teaching Associate, Summer Institute, UCSB.
Class: Interdisciplinary Issues in Aquatic Sciences and Policy (INT91 – Summer)
- 2015 Teaching assistant, Department of Ecology Evolution and Marine Biology, UCSB.
Class: Concepts and controversies in biology (EEMB22): Dr. Thomas Even (Spring)
- 2014 Teaching Associate, Summer Institute, UCSB.
Class: Interdisciplinary Issues in Aquatic Sciences and Policy (INT91 – Summer)
- 2014 Teaching assistant, Department of Ecology Evolution and Marine Biology, UCSB.
Class: Introductory Biology Laboratory II (EEMB21): Dr. Douglas Bush and Staff (Winter)
Class: Aquatic Community Ecology (EEMB142a): Dr. Thomas Even & Dr. Thomas Adam (Fall)
Class: Concepts and controversies in biology (EEMB22): Dr. Thomas Even (Spring and Summer)
- 2013 Teaching assistant, Department of Ecology Evolution and Marine Biology, UCSB.
Class: Aquatic Community Ecology (EEMB142a): Dr. Thomas Even & Dr. Russel Smith (Fall)
Class: Concepts and controversies in biology (EEMB22): Dr. Thomas Even (Spring and Summer)
- 2012 Teaching assistant, Department of Ecology Evolution and Marine Biology, UCSB.
Class: Aquatic Community Ecology (EEMB142a): Dr. Thomas Even & Dr. Russel Smith (Fall)
Class: Concepts and controversies in biology (EEMB22): Dr. Thomas Even (Spring and Summer)
- 2011 Teaching assistant, Department of Ecology Evolution and Marine Biology, UCSB.
Class: Concepts and controversies in biology (EEMB22): Dr. Thomas Even (Spring and Summer)
- 2001 Teaching assistant, Department of Oceanography, University of Concepcion.

Class: Pelagic Systems. Supervisor: Dr. Tarsicio Antezana (I Semester)
Class: Scientific Research. Supervisor: Dr. Tarsicio Antezana (II Semester)
1999 Teaching Assistant, Department of Oceanography, University of Concepcion.
Class: Pelagic Systems. Supervisor: Dr. Tarsicio Antezana (I Semester)
Class: Workshop on Pelagic Systems. Supervisor: Dr. Tarsicio Antezana (II Semester)
1998 Teaching assistant, Department of Oceanography, University of Concepcion.
Class: Pelagic Systems. Supervisor: Dr. Tarsicio Antezana (I Semester)
Class: Workshop on Pelagic Systems. Supervisor: Dr. Tarsicio Antezana (II Semester)

PROFESIONAL EXPERIENCE

October 2016 – Present Postdoctoral researcher for the State of Alaska's Salmon and People (SASAP) project at National Center for Ecological Analysis and Synthesis (NCEAS), University of California, Santa Barbara.
August 2015 – March 2016 Web and academic material development for the “Concepts and controversies in the biological sciences” Grant of the Innovative Learning Technology Initiative by the Regent of the University of California, Santa Barbara Grant.
May – June 2013 NASA-University of Virginia Intensive Summer School in Computing for Environmental Sciences.
2004 – 2008 Research assistant, Quantitative Marine Biology Laboratory, University Austral of Chile.
August – December 2002 Internship at Department of Oceanography, Institute of Earth Sciences, University of Gothenburg. Gothenburg, Sweden.
April – December 2002 Scientific observer on purse-seiners off Central Chile
March – December 2002 Participant in the Project Linnaeus – Palme between University of Concepción, Chile, and University of Gothenburg, Sweden.
March 2001 – December 2003 Research on “Modeling the impact of krill fisheries on Antarctic ecosystems” Cooperative work between Pelagic Ecology Laboratory, Universidad de Concepción, and Fisheries Centre, University of British Columbia.
May 2001 – June 2001 Internship at Fisheries Centre, University of British Columbia.
November 2000 Scientific observer on purse-seiners off Central Chile
March – September 1999 System administrator of computer lab at Institute of Natural Sciences and Oceanography, University of Concepción, Chile.
January – March 1998 Scientific observer on trawl fishing vessels off Central Chile.

OTHER EXPERIENCE

February 2010 – March 2012 Garden Coordinator, Community Gardens at Storke Family Housing, University of California Santa Barbara.
March 1995 – May 1995 Social work with at risk children at Center of Observation and Diagnostics, Chillancito, Concepción, Chile.

AWARDS AND HONORS

2014 – 2016 Latinoamerican Fisheries Fellowship, for PhD studies on fisheries sustainability in Latino America, University of California, Santa Barbara.
2013 – 2014 James D. Kline award for International Studies Award for studies that promote the international understanding and world peace, University of California.
2013 – 2014 UCSB Affiliates Graduate Dissertation Fellowship, University of California.

- 2010 – 2013 Luce Environmental Science to Solutions Fellowship, Marine Science Institute, University of California Santa Barbara.
- 2008 – 2013 Fulbright – Conicyt international science and technology PhD program fellowship, Chile.
- 1994 – 2000 Fellowship for Undergraduate Studies (Marine Biology), by Education Secretary, Chile.

PEER REVIEWED PUBLICATIONS

- Cornejo-Donoso, J.**, Birnir, J., Einarsson, B. & Gaines, S.D. (2017) Effects of fish movement assumptions on the success of a marine protected area. *PLoS ONE* 12(10): e0186309
- Teck, S.J., Lorda, J., Shears, N.T., Bell, T.W., **Cornejo-Donoso, J.**, Caselle, J.E., Hamilton, S.L., Gaines, S.D. (2017) Disentangling the effects of fishing and environmental forcing on demographic variation in an exploited species. *Biological Conservation* 209: 488-498
- Aceves-Bueno, E., **Cornejo-Donoso, J.**, Miller, S.J., & Gaines, S.D. (In review) Are Territorial Use Rights in Fisheries Sufficiently Large? *Fish and Fisheries* 78: 189-195
- Birnir, B., Einarsson, B., Bonilla, L., & **Cornejo-Donoso, J.** (2017) Ordered, Disordered and Partially Synchronized Schools of Fish. *International Journal of Nonlinear Science and Numerical Simulations* 18(2): 163-174
- Selden, B.L., Valencia, S.R., Larsen, A.E., **Cornejo-Donoso, J.** & Wasserman, A. (2015) Evaluating seafood eco-labeling as a mechanism for ecosystem-based fisheries management. *Marine Policy* 64: 102-115
- Gutierrez, N.L., Valencia, S.R., Branch, T.A., Agnew, D.J., Baum, J.K., Bianchi, P.L., **Cornejo-Donoso, J.**, Costello, Ch., Defeo, O., Essington, T.E., Hilborn, R., Hoggarth, D.D., Larsen, A.E., Ninnes, Ch., Sainsbury, K., Selden, R.L., Sistla, S.S., Smith, A.D.M., Stern-Pirlot, A., Teck, S.J., Thorson, J.T., Williams, N.E. (2012) Eco-label conveys reliable information on fish stock health to seafood consumers. *PLoS One* 7(8): e43765
- Niklitschek, E., **Cornejo-Donoso, J.**, Oyarzun, C., Hernandez, E. & Toledo, P. (2010) Bottom trawling effects upon bycatch diversity in a new orange roughy fishery: the case of Juan Fernandez Archipelago seamounts in Chile. *Marine Biology* 31: 168-182
- Lafon, A., Niklitschek, E., **Cornejo-Donoso, J.** & González, K. (2010) New records of orange roughy *Hoplostethus atlanticus* (Collet, 1889) juveniles in Chile. *Journal of Fish Biology* 76(4): 1008-1014
- Cornejo-Donoso, J.** & T. Antezana (2008) Preliminary trophic model of the Antarctic Peninsula ecosystem, subarea 48.1. *Ecological Modelling* 218: 1-17

STOCK ASSESSMENT REPORTS

- Niklitschek, E., **Cornejo, J.**, Hernández, E., Toledo, P., Herranz, C., Merino, R., Lafon, A., Castro, L., Roa, R. & Aedo, G. (2007) Evaluación hidroacústica de alfoncino y orange roughy, año 2006. Universidad Austral de Chile, Coyhaique. FIP 2006-09.
- Niklitschek, E., Boyer, D., Lafon, A., Soule, M., **Cornejo, J.**, Hampton, I., Hernández, H., Merino, R., Toledo, P., Castro, L., Aedo, G. & George-Nascimento, M. (2007) Evaluación hidroacústica y TS de alfoncino y orange roughy, 2005. Universidad Austral de Chile, Valparaíso. FIP 2005-13.
- Niklitschek, E., Boyer, D., Merino, R., Hampton, I., Soule, M., Nelson, J., **Cornejo, J.**, Lafon, A., Oyarzún, C., Roa, R. & Melo, G. (2005) Estimación de la biomasa reproductiva de orange roughy en sus principales zonas de concentración, 2004. Universidad Austral de Chile, Valparaíso. FIP 2004-13. 159 p.

- Niklitschek, E. & **Cornejo, J.** (2005) Comparación de estrategias de prospección hidroacústica e identificación de ecotrazos de orange roughy *Hoplostethus atlanticus*. Universidad Austral de Chile, Centro de Estudios Pesqueros, Coyhaique, Chile. CT0409. 6 p.
- Niklitschek, E., **Cornejo, J.** & Hernández, E. (2005) Factibilidad de evaluación hidroacústica de agregaciones de jibia utilizando datos de la operación comercial de buques arrastros. Universidad Austral de Chile, Centro Estudios Pesqueros, Coyhaique, Chile. CT 05-07. 14 p.

OTHER COOPERATIVE WORK IN PROGRESS

- Viana, D., **Cornejo-Donoso, J.**, Gaines, S.D. Territorial Use Rights in Fisheries (TURFs) and Reserve Designs
- Wainwright, B., White, C. & **Cornejo-Donoso, J.** Allometric growth and fecundity in fish species

DOCTORAL DISSERTATION CHAPTERS

- Cornejo-Donoso, J.**, Birnir, J., Einarsson, B. & Gaines, S.D. Effects of movement assumptions on the success of a marine protected area
- Cornejo-Donoso, J.**, Birnir, J. & Gaines, S.D. Effect of movement assumptions on the optimal placement of a marine protected area
- Cornejo-Donoso, J.**, Birnir, J. & Gaines, S.D. Effects of the temporal environmental variability in the success of a marine protected area

RELEVANT COMPUTATIONAL SKILLS

Computer: Proficient in R, Python, C, C++, PHP, MySQL, Access, Microsoft Office, ArcGIS, qGIS, High Performance Computer (Symmetric processing and clusters) and many others.

Experience as user of Windows, Linux (Ubuntu, Debian, others), Unix and OSX operative systems, several oceanographic equipment and development with Arduino boards.

Language: Fluent spoken and written Spanish and English.