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Education

2011 Ph. D. Oceanography. Center for Coastal Physical Oceanography. Department of Ocean, Earth and Atmospheric Sciences, Old Dominion University, Norfolk, Virginia, USA. (Academic advisor: **Dr. Eileen Hofmann**)

Dissertation entitled: “Circulation on the Western Antarctic Peninsula: Implication for biological production”

2006 M.S. Ocean and Earth Science. Center for Coastal Physical Oceanography. Department of Ocean, Earth and Atmospheric Sciences, Old Dominion University, Norfolk, Virginia, USA. (Academic advisor: Dr. Arnoldo Valle-Levinson).

Thesis entitled: “Tidally induced variability at the Chesapeake Bay entrance”

2003 B.S. Oceanography. Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile. Graduated with honors. (Thesis director: Dr. Oscar Pizarro)

Thesis entitled: “Study of oceanic intraseasonal oscillations (30-90 days) and their effect over the atmospheric conditions of northern Chile” (Original document in Spanish)

Experience

2004-2011 Research assistant. Center for Coastal Physical Oceanography (CCPO), Old Dominion University, Norfolk, Virginia, USA.

Jan, 2009 Ship-time on board of R/V Ary Rongel, to participate in PATEX VI-Antarctic Peninsula cruise. Responsibilities included: collection of water samples for salinity, CTD profiles, data collection for visible radiation.

- 2004-2006 Ship-time on board of R/V Fay Slover, Hampton Roads Bridge cruises. Multiple short term cruises. Responsibilities included: underway current speed and direction recording (ADCP), CTD profiles.
- 2002-2003 Research assistant. Estación Costera de Investigaciones Marinas (ECIM), Pontificia Universidad Católica de Chile, Las Cruces, Chile.
- 2002-2003 Ship-time on board of F/V Moby Dick, Coastal Oceanography – ECIM project. Multiple short term cruises. Responsibilities included: underway current speed and direction recording (ADCP), CTD profiles.
- 1999-2001 Research assistant. Physical Oceanography Laboratory, Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile.
- Sep, 2000 Ship-time on board of R/V Abate Molina, FONDAP-Humboldt Program. Responsibilities included: collection of water samples for salinity and oxygen, CTD profiles, maintenance and data collection for moored current meter equipment.
- Mar, 2000 Ship-time on board of R/V Abate Molina, FONDAP-Humboldt Program. Responsibilities included: collection of water samples for salinity and oxygen, CTD profiles.
- Oct, 1999 Ship-time on board of R/V Abate Molina, FONDAP-Humboldt Program. Responsibilities included: collection of water samples for salinity and oxygen, CTD profiles.

Honors and Awards

Poster Award: Best Poster Presentation, in session 17 in the theme Antarctica – Witness to the Past and Guide to the Future: Tipping Points. For the poster entitled: Remote and local connectivity of Antarctic krill (*Euphausia superba*) populations along the western Antarctic Peninsula. At the XXXI SCAR Open Science Conference, Buenos Aires-Argentina, August 3-6 **2010**.

Oral Award: Best Oral Presentation, in session 17 in the theme: Antarctica – Witness to the Past and Guide to the Future: Tipping Points. For the talk entitled: Modeling early life stages of Antarctic krill (*Euphausia superba*) in continental shelf environments on the west Antarctic Peninsula. At the XXXI SCAR Open Science Conference, Buenos Aires-Argentina, August 3-6 **2010**.

Poster Award: Early Career Scientist-The best poster presenter. For the poster entitled: Simulations of Lagrangian particles on the western Antarctic peninsula: the effect of circulation dynamics. At the SCAR/IASC IPY Open Science Conference held in St. Petersburg Russia, July 8-11 **2008**.

Honorable Mention for Outstanding Graduate Poster Presentation

Category: Computer, Computational and Physical Science. At Research Expo 2008, held at Old Dominion University Norfolk-VA, Apr 9 **2008**.

Neil and Susan Kelley Endowed Scholarship Fund, Department of Ocean, Earth and Atmospheric Science - Old Dominion University. Awarded on merit during M.S. studies. January **2006**.

National Prominence Award, Department of Ocean, Earth and Atmospheric Science - Old Dominion University, **2004-2005** academic year.

Professional Organizations

Member, American Geophysical Union (AGU)

Member, Association of Polar Early Career Scientists (APECS)

Publications

Piñones, A., Hofmann, E.E., Dinniman, M.S., Klinck, J.M., **2011**. Lagrangian simulation of transport pathways and residence times along the Western Antarctic Peninsula. *Deep-Sea Research II* 58, 1524-1539.

Wiebe, P.H, Ashjian, C., Lawson, G.L., Piñones, A., Copley, N., **2011**. Horizontal and vertical distribution of euphausiid species on the Western Antarctic Peninsula Southern Ocean GLOBEC study site. *Deep-Sea Research II* 58, 1630-1652.

Hofmann, E.E, Costa, D.P., Daly, K.L., Dinniman, M.S., Klinck, J.M., Marrari, M., Padman, L., Piñones, A., **2009**. Results from US Southern Ocean GLOBEC Synthesis Studies. *GLOBEC International Newsletter* 15(1), 43-48.

Piñones, A., Castilla, J.C., Guiñez, R., Larger, J.L., **2007**. Nearshore surface temperatures in Antofagasta Bay (Chile) and adjacent upwelling centers. *Ciencias Marinas* 33(1), 37-48.

Vargas, C.A., Narváez, D.A., Piñones, A., Navarrete, S.A., Lagos, N.A., **2006**. River plume dynamic influences transport of barnacle larvae in the inner shelf off central Chile. *Journal of the Marine Biological Association of the UK* 86, 1057 - 1065.

Piñones, A., Valle-Levinson, A., Narváez, D.A., Vargas, C.A., Navarrete, S.A., Yuras, G., Castilla, J.C., **2005**. Wind-induced variability in river plume motion. *Estuarine, Coastal and Shelf Science* 65, 513-525.

Vargas, C.A., Narváez, D.A., Piñones, A., Venegas, R.M., Navarrete, S.A., **2004**. Internal tidal bore warm fronts and settlement of invertebrates in central Chile. *Estuarine, Coastal and Shelf Science* 61, 603-612.

In preparation:

E.J. Murphy, E.J., Hofmann, E.E, Watkins, J.L, Johnston, N.M., Piñones, A., Ballerini, T., Hill, S.L., Trathan, P.N. Tarling, G.A., Cavanagh, R.A., Young, E.F., Thorpe, S., Fretwell, P. *Submitted*. Comparison of the structure and function of Southern Ocean regional ecosystems: the Antarctic Peninsula and South Georgia. *Journal of Marine Systems*.

Piñones, A., Hofmann, E.E., Daly, K.L., Dinniman, M.S., Klinck, J.M. Modeling the remote and local connectivity of Antarctic krill (*Euphausia superba*) populations along the Western Antarctic Peninsula. To be submitted to *Marine Ecology Progress Series*.

Piñones, A., Hofmann, E.E., Daly, K.L., Dinniman, M.S., Klinck, J.M. Modeling early life stages of Antarctic krill (*Euphausia superba*) in continental shelf environments on the Western Antarctic Peninsula. To be submitted to *Deep-Sea Research*.

Computer skills

Computer Programming: MATLAB, FORTRAN, Unix/Linux user

Ocean Modeling: User of Regional Ocean Modeling System (ROMS)

Professional Presentations

Poster presentations

Remote and local connectivity of Antarctic krill (*Euphausia superba*) populations along the western Antarctic Peninsula.

Andrea Piñones, Eileen E. Hofmann, Kendra L. Daly, Peter H. Wiebe, Michael S. Dinniman, John M. Klinck.

SCAR Open Science Conference held in Buenos Aires – Argentina, August 3-6, 2010

Circulation on the Western Antarctic Peninsula: implications for biological production

Andrea Piñones, Eileen E. Hofmann, Michael S. Dinniman, John M. Klinck

3rd GLOBEC Open Science Meeting, Victoria - BC, Canada, June 22-26 2009

Simulations of Lagrangian particles on the western Antarctic peninsula: the effect of circulation dynamics.

Andrea Piñones, Eileen E. Hofmann, Michael S. Dinniman, John M. Klinck

SCAR/IASC IPY Open Science Conference, St. Petersburg, Russia, July 8-11 2008

West Antarctic Peninsula circulation and implications for biological production.
Andrea Piñones, Eileen E. Hofmann, Michael S. Dinniman, John M. Klinck
At Research Expo 2008 held at Old Dominion University, April 9 2008.

West Antarctic Peninsula circulation and implications for biological production.
Andrea Piñones, Eileen E. Hofmann, Michael S. Dinniman, John M. Klinck
At 2008 Ocean Science Meeting, Orlando, Florida, March 2 -7 2008.

Tidally induced transport at the entrance to a coastal plain estuary: importance of
overtides.

Andrea Piñones, Arnoldo Valle-Levinson.

At 2006 Ocean Science Meeting, Honolulu, Hawaii, February 20 -24 2006.

Tidal currents variability at the entrance to a coastal plain estuary.

Andrea Piñones, Arnoldo Valle-Levinson.

At the 18th International Conference of the Estuarine Research Federation, Norfolk –
Virginia, October 16-20 2005

Oral presentations

Modeling early life stages of Antarctic krill (*Euphausia superba*) in continental shelf
environments on the west Antarctic Peninsula.

Andrea Piñones, Eileen E. Hofmann, Kendra L. Daly, Michael S. Dinniman, John M.
Klinck

SCAR Open Science Conference held in Buenos Aires – Argentina, August 3-6, 2010

Remote and local connectivity of Antarctic krill (*Euphausia superba*) populations along
the western Antarctic Peninsula.

Andrea Piñones, Eileen E. Hofmann, Kendra L. Daly, Peter H. Wiebe, Michael S.
Dinniman, John M. Klinck

At “2010 Ocean Science Meeting”, Portland, Oregon. February 22 -26 2010.

Circulation on the Western Antarctic Peninsula and implications for biological
production.

Andrea Piñones, CCPO Seminar - ODU, Oct 6 2008

Circulation on the Western Antarctic Peninsula and implications for biological
production.

Andrea Piñones, Eileen E. Hofmann, Michael S. Dinniman, John M. Klinck

At “SCAR/IASC IPY Open Science Meeting” held in St. Petersburg-Russia July 8-11
2008

Wind-induced river plume dynamics.

Andrea Piñones, Arnoldo Valle-Levinson, Diego A. Narváez, Cristian A. Vargas, Sergio Navarrete, Juan Carlos Castilla.

Atmospheric and oceanic circulation on the subtropical Pacific Symposium. Concepción – Chile. Dec 3-5, 2003.

Intraseasonal variability in sea level and sea surface temperature time series in northern Chile.

Andrea Piñones, Oscar Pizarro, Jaime Letelier, Sergio Salinas.

XXI Congreso de Ciencias del Mar. Viña del Mar - Chile, May 22-25, 2001.

Outreach participation

2010 Seventh Annual Oceanography Day at Christ The King Catholic School-Norfolk.

2009 Sixth Annual Oceanography Day at Christ The King Catholic School-Norfolk.

2008 Girl Scout Jamboree merit badge program.

2008 Blue Crab Bowl - Virginia Regional Competition of the National Ocean Sciences Bowl (NOSB).

2007 Blue Crab Bowl - Virginia Regional Competition of the National Ocean Sciences Bowl (NOSB).

2004-2006 ODU-HIGH TIDE Project for HIGH schools of Tidewater Interacting on Data collection Experiences.