

## NINA KEUL- CURRICULUM VITAE

Postdoc at Lamont Doherty Earth  
Observatory

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### Education

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- 10/09 –10/12 Alfred-Wegener-Institut, Bremerhaven, Biogeosciences (D) and Jacobs University, Bremen, Marine Geosciences (D) under the supervision of Prof. Dr. Jelle Bijma  
PhD thesis:  
“Ultra-structural changes and trace element/ isotope partitioning in calcifying organisms (Foraminifera, Ostracoda)”
- 05/08 –09/09 Texas A&M University, College Station (USA) and IFM-GEOMAR, Kiel (D) (incl. writing of publication)  
Master thesis in Marine Chemistry under the supervision of Prof. Dr. Ulf Riebesell and Prof. Dr. John Morse:  
“Aragonite Saturation State in the Greater Caribbean Region”
- 10/ 06 –04/08 IFM-GEOMAR, Kiel (D) and University of Southern Denmark, Odense (DK)  
MSc in Biological Oceanography (specialising in Biological Oceanography, Chemical Oceanography and Marine Geology)
- 10/03 –09/06 Christian-Albrechts Universität zu Kiel, Kiel (D)  
Vordiplom in Biology

### Working experience

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- 01/13 –present LAMONT-DOHERTY EARTH OBSERVATORY  
Postdoc  
Geochemical Analyses of high-latitude pteropods
- 10/07 –04/08 IFM-GEOMAR, Kiel (D)

- Research assistant, Marine geosystems division  
Isotopic analyses of water, stone and oil samples
- 07/07 –09/07      DHI (Consultancy), Hoersholm (DK)  
Assistant Project Manager (Internship)  
Numerical modelling of the oxygen conditions in the Baltic Sea
- 10/05 –02/07      IFM-GEOMAR, Kiel (D)  
Research assistant  
Analysis of distribution and migration of cephalopods in the  
North-Atlantic
- 07/05 –10/05      Estacao Biologia Marinha do Funchal, Funchal (P)  
Research assistant  
Distribution, ecology and Conservation of the pelagic  
Loggerhead turtle (*Caretta caretta*)

## **Publications**

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- Nehke G., **Keul** N., Langer G., de Nooijer L. J., Bijma J., Meibom A., 2013, *A new model for biomineralization and trace-element signatures of foraminifera tests*, Biogeosciences Discussions (in review).
- Keul** N., Langer G., de Nooijer L. J., Bijma J., 2013, *Effect of ocean acidification on the benthic foraminifera Ammonia sp. is caused by a decrease in carbonate ion concentration*, Biogeosciences Discussions (in review).
- Keul** N., Langer G., de Nooijer L. J., Nehrke G., Reichart G.-J, Bijma J., 2013, *Incorporation of uranium in benthic foraminiferal calcite reflects seawater carbonate ion concentration*, Geochem. Geophys. Geosyst., doi:10.1029/2012GC004330.
- Glas, M., Langer, G., **Keul**, N., 2012, *Calcification acidifies the microenvironment of a benthic foraminifer (Ammonia sp.)*, Journal Mar. Biol. Ecol., 424-425, p53-58.
- Keul**, N., Morse, J. W., Wanninkhof, R., Gledhill, D. K., Bianchi, T. S., 2010 *Carbonate Chemistry Dynamics of Surface Waters in the Northern Gulf of Mexico*, Aquatic Geochemistry, Vol 16, Nr 3, p337 –351.
- Hansen, I. S., **Keul**, N., Sørensen, J. T., Erichsen, A., Andersen, J. H., 2007 *Baltic Sea Oxygen Maps 2000 –2006*, BALANCE Interim Report No. 17

## Conferences and Meetings

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- EGU 2010: Poster: “Impacts of ocean acidification on calcification in the benthic foraminifer. *Ammonia tepida*” (Keul et al.)
- FORAMS 2010: Talk: “Vesicle Dynamics in Foraminifera” (Keul et al.)
- Bioacid Meeting 2010: Poster: “ Vesicle Dynamics in Foraminifera” (Keul et al.)
- Bioacid Meeting 2011: Talk: “ Seawater endocytosis not related to chamber formation of foraminifera” (Keul et al.)
- AGU 2012: Poster: “Impact of Ocean Acidification on Foraminiferal Calcification (Keul et al.)”  
Press Conference: Ocean Acidification 1: Increasing ocean acidification, declining reef health
- JpGU 2012: Talk: "Impacts of ocean acidification on *foraminiferal* calcification" (Keul et al.)

## Scholarships and Summer Schools

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- Polmar travel scholarship to USSP 2011 (ca. 500 EUR)
- BioVisionNxt Scholar 2011 (travel grant, ca. 1000 EUR)
- AXA Research Fund Scholarship 10/2009 –09/2012 (120 000 EUR)
- USSP 2011 (Urbino Summer School of Palaeoclimatology, 13.07 –02.08.2011)

## Additional Qualification

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- Languages : German (native), English (fluent), French (intermediate),
- Commitment: PhD representative of at Alfred-Wegner-Institut (2010/ 2011)
- Teaching: ESSReS-L8: Bioarchives (2-day course about palaeo-archives)

Supervision of final year project of two HIGH-SEA students (project in cooperation with a local high-school) and three apprentices for a period of 6 months

Cruises:           RV Alkor (Baltic Sea, 2007)  
                      MCH 12 (Gulf of Mexico, 2008)  
                      EotS (Caribbean Sea, 2008)