

## Education

- **PhD** (2016)
  - Carl-von-Ossietzky Universität Oldenburg. School of Medicine and Health Sciences. Oldenburg (Germany)
  - Thesis: *Interaural time difference processing in the auditory brainstem of two bird species.*
  - PhD program: *Neurosensory Sciences and Systems.*
  - Supervisor: Prof. Dr. Christine Köppl.
- **Licentiate degree** (2010)
  - Five-year undergraduate degree, consisting of 3 years of basic courses plus 2 years of advanced specialized courses.
  - **Universidade de Vigo.** Vigo (Spain)
  - **Biology.** Specialization in Organism and Systems.
  - Licentiate dissertation: *Anatomical study on the variability of the occipital bone among 32 Cetacean species and possible relationship with environmental variables.*

## Employment

- **Predoctoral researcher** (June 2011-October 2016)
  - Carl-von-Ossietzky Universität Oldenburg. School of Medicine and Health Sciences. Oldenburg (Germany).

## Peer-Reviewed publications

- Palanca-Castan N., Laumén G., Reed D., Köppl C. **2016.** The binaural interaction component in barn owl (*Tyto alba*) presents few differences to mammalian data. *Journal of the Association for Research in Otolaryngology (JARO)*. 17.6 (2016): 577-589.
- Palanca-Castan N., Köppl, C. **2015.** *In vivo* recordings from low-frequency nucleus laminaris in the barn owl. *Brain, Behavior and Evolution* 85(4). (Editor's Choice, open access).
- Palanca-Castan N., Köppl, C. **2015.** Change in interaural time difference processing in low-frequency chicken auditory brainstem. *Frontiers in neural circuits* 9:43.
- Miramontes-Sequeiros L.C., Palanca-Castan N., Palanca-Soler A. **2010.** Development of a new anatomic tool for the study of the Occipital region in *Delphinus delphis*. *Marine Mammal Science* 26(4): 982–989.
- Ndiaga T., Miramontes-Sequeiros L.C., Palanca-Castan N., Palanca-Soler A. **2009.** Anatomical differences among Atlantic and Mediterranean populations of *Trisopterus luscus* (Pisces). *Aquatic biology* 7: 243–24.

## Conference presentations

- Palanca-Castan, N., Laumen, G. Reed, D., Köppl, C. **Talk:** "The binaural interaction component in barn owl (*Tyto alba*) presents few differences to mammalian data". *Cajal Winter Meeting 2016. Sanxenxo (Spain)*. **25-27 April 2016.**
- Palanca-Castan, N., Laumen, G. Reed, D., Köppl, C. **Poster:** "Characterization of the binaural interaction component in the barn owl (*Tyto alba*)". *39<sup>th</sup> ARO Midwinter Meeting, San Diego (US)*. **20-25 February 2016.**
- Palanca-Castan N, Köppl C. **Poster:** "In vivo recordings from low-frequency nucleus laminaris in the barn owl". *38<sup>th</sup> ARO Midwinter Meeting, Baltimore (US)*. **20-25 February 2015**
- Palanca-Castan N, Köppl C. **Poster:** "In vivo response properties of neurons from low-frequency nucleus laminaris in the chicken". *36<sup>th</sup> ARO Midwinter Meeting, Baltimore (US)*. **16-20 February 2013**
- Miramontes-Sequeiros L.C., Palanca-Castan N., Palanca-Soler A. **Talk:** "Anatomical adaptation to environmental features in populations of *Trisopterus luscus* in the Atlantic Ocean and the Mediterranean Sea". *II International Symposium in Marine Sciences. Vigo (Spain)*. **27-30 April 2009.**
- Zaharescu D., Palanca-Soler A., Burghelea C., Palanca-Castan N. **Poster:** "Alpine collections at high altitudes". *BGCI's 6th International Congress on Education in Botanic Gardens. University of Oxford Botanic Garden*. **10-14 September 2006.**
- Zaharescu D, Palanca-Castan N, Fernández Fañanás J, Palanca-Soler A, Burghelea C, Bouza Rodríguez B. **Poster:** "Lacs glaciaires dans le paysage: relation biodiversite-milieu ambiant". *8<sup>eme</sup> Conference Internationale des Limnologues d'Expression Française. Hammamet (Tunisie)*. **17-21 March 2006.**
- Zaharescu D, Palanca-Castan N, Fernández Fañanás J, Palanca-Soler A, Burghelea C. **Poster:** "Revision de la limite altitudinale superieure de distribution de *Rana temporaria* dans les Pyrenees". *8<sup>eme</sup> Conference Internationale des Limnologues d'Expression Française. Hammamet (Tunisie)*. **17-21 March 2006.**

## Divuligation (not peer-reviewed)

- Palanca-Soler A, Miramontes-Sequeiros, L.C., Palanca-Castan, N. **2015.** Factores intrinsecos en la evolucion del craneo de cetaceos odontocetos. *Investigación, Cultura, Ciencia y Tecnología* 7(14): 10-17. Edited by the University of Vigo.
- Caamaño-Chinchilla, L., Blanco-García, I., Miramontes-Sequeiros L.C., Palanca-Castan N., Palanca-Soler A. **2015.** Peces o ranas? Dilema en alta montaña pirenaica. *Investigación, Cultura, Ciencia y Tecnología* 7(13): 22-28. Edited by the University of Vigo.
- Platas-Mallo V, Miramontes-Sequeiros L.C., Palanca-Castan N., Palanca-Soler A. **2014.** Estudios de bioacústica de *Rana temporaria* que habita en lagos pirenaicos de origen glaciar. *Investigación, Cultura, Ciencia y Tecnología* 6(12): 27-33. Edited by the University of Vigo.

- Miramontes-Sequeiros L.C., Palanca-Castan N., Palanca-Soler A. **2014**. Variabilidad de la región occipital en Cetáceos y su posible relación con factores medioambientales. *Investigación, Cultura, Ciencia y Tecnología* 6(12): 46-55. Edited by the University of Vigo.

## Grants and awards

- Travel grant from the Sociedad Española de Neurociencia (Spanish Neuroscience Society) to attend the Cajal Winter Meeting. **2016**.
- Travel grant from the Association for Research in Otolaryngology to attend the ARO Midwinter Meeting. **2016**.
- Travel grant from the graduate school: "Science and Technology" to attend the ARO Midwinter Meeting. **2016**.
- Travel grant from the graduate school: "Science and Technology" to attend the ARO Midwinter Meeting. **2013**.
- Undergraduate Research Internship grant from the Spanish Ministry of Education. **2009-2010**.
- Erasmus Grant for International Student Mobility. **2007-2008**.

## Research experience and techniques

- Voluntary collaborator with the Animal Biology and Ecology department, University of Vigo. **May 2016-Present**.
  - Ecology, conservation and biacoustics of high-mountain anurans.
- Predoctoral researcher within the project: SFB/TTR31: The active auditory system awarded by the Deutsche Forschungsgemeinschaft. **2011-2015**.
  - *In vivo* electrophysiological recordings of single neurons and evoked potentials.
  - Labeling and immunostaining of recording sites in vertebrate brains.
  - Creation and modification of data analysis routines in Matlab.
- Research training project in the Animal Biology and Ecology Department, University of Vigo: *Anatomical study on the variability of the occipital bone among 32 Cetacean species and possible relationship with environmental variables*. **August 2010**.
  - Morphometric analysis of skeletal structures. Statistical analysis.
- Research training project in the Animal Biology and Ecology Department, University of Vigo: *Anatomical adaptation to environmental features by distant populations of Trisopterus luscus*. Funded by the Spanish Ministry of Education. **2009-2010**.
  - Morphometric analysis of skeletal structures. Statistical analysis.
- Summer assistant in the research project of the Fundacion Laboratorio de Anatomia Animal, University of Vigo: "Study of Contamination by Arsenic in Pyrenean High Mountain and its effects on flora, fauna and human populations". **Summer 2008**.
  - Trace element assays in high mountain lakes and lacustrine fauna.

- Research trainee at the Institute of Biological and Environmental Sciences, School of Biological Sciences, University of Aberdeen. **2007- 2008.**
  - Analysis of electrophoretic gel plates.
- Summer assistant in the research project of the Fundacion Laboratorio de Anatomia Animal, University of Vigo: "Field Monitoring Methods in extreme environments: badlands (Monegros, Aragon) and alpine (Pyrenees)".**2004-2007.**
- Summer assistant in the research project of the Fundacion Laboratorio de Anatomia Animal, University of Vigo: "Environmental Impact Assessment in a new urbanization enlargement in Formigal". **July 2004.**
  - Field monitoring methods for montane flora and fauna.
- Summer assistant in the research project of the Fundacion Laboratorio de Anatomia Animal, University of Vigo: "Study of the lakes of the Arrens and Cauterets sectors (National Park of French Pyrenees). **July/August 2000-2002.**
  - Field monitoring methods for montane flora and fauna.

## Professional certifications

- Official certification for Assistant Professor by the Spanish Ministry of Education

## Other

- Carried out informal supervision of Masters and Bachelor students during my PhD.
- Member of the student delegation of the Faculty of Biology during my undergraduate degree.
- Third year of my undergraduate degree completed at the University of Aberdeen (Scotland, United Kingdom) as part of the Erasmus student exchange program.
- Native Spanish proficiency.
- C1 Galician level, certified by the Galician regional government.
- C2 English level, certified by the Cambridge English Proficiency test.
- A1 German level, certified by the University of Oldenburg.

## References

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- Dr. Manuel Sánchez-Malmierca
  - Instituto de Neurociencias de Castilla y León. Salamanca (Spain).
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  - Albert Einstein College of Medicine. New York (USA).
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