

EMPLOYMENTS

2005 – 2010 University of Gothenburg Göteborg, Sweden
Teaching assistant at the institution of Zoology

2003 – 2004 Volvo Cars. Inc. Göteborg, Sweden
Logistics

2002 - 2003 National Marine Fisheries Service, Honolulu, USA
Associate scientist
Research cruise with the NMFS to study lobster abundance in the Northwest Hawaiian Islands.

2002 – 2003 Hawaii Pacific University, Honolulu, USA
Assistant scientist
Research cruise to assess the impact of carbon dioxide sequestration into the deep ocean.

1999 – 1999 Chalmers Univ. of Technology, Göteborg, Sweden
Laboratory Assistant
Institution of Metallic Construction Materials, preparing samples for transfer electron microscopy.

RESEARCH EXPERIENCE

My Ph.D. research focused on the morphology, taxonomy and systematics of small benthic invertebrates. My initial focus was in exploring the fauna of poorly known regions, and I described 11 new species of marine clitellate worms from New Caledonia and the Great Barrier Reef morphologically and with DNA-barcoding sequences. From this grew an interest in comparing fine-structural morphology between different species, particularly looking at the body wall structures (i.e. cuticles, skin and muscles) of clitellates using TEM. After this, my focus shifted to studying evolutionary relationships and morphological character evolution from family level to intraspecifically, using molecular methods; the latter part focusing on the question “What is a species?” My postdoctoral research builds upon this experience and expands in using genomic tools and high-throughput DNA sequencing to examine the population structure of benthic invertebrates along the US west coast, and their potential to adapt to changing environmental conditions in the future.

TEACHING EXPERIENCE

During my Ph.D. (5 years), I was employed part-time as a teaching assistant in general biology, faunistics, marine biology, neurobiology and zoomorphology. Mostly, this included practical exercises, but I also did some lecturing. I have studied 10.5 Credits in Teaching for Undergraduate Students. During my Ph.D., I also volunteered in a public outreach program (VIRTUE) to inspire elementary school children (age 11-13) about natural science.

PUBLICATIONS

- Erséus, C., Rota, E., Gustafsson, D. & **De Wit, P.** (in prep.) Cryptic speciation in the whiteworm, *Enchytraeus albidus* (Annelida, Clitellata, Enchytraeidae).
- De Wit, P.**, Rota, E. & Erséus, C. (submitted). Phylogeny and character evolution in *Grania* (Annelida, Clitellata).
- De Wit, P.**, Erséus, C. & Gustavsson, L.M. (2011). Ultrastructure of the body wall of three species of *Grania* (Annelida: Clitellata: Enchytraeidae). *Acta Zoologica* 92 (1): 1-11.
- Erséus, C., Rota, E., Matamoros, L. & **De Wit, P.** (2010). Molecular phylogeny of Enchytraeidae (Annelida, Clitellata). *Molecular Phylogenetics and Evolution* 57: 849-858.
- De Wit, P.** & Erséus, C. (2010). Genetic variation and phylogeny of Scandinavian species of *Grania* (Annelida: Clitellata: Enchytraeidae), with the discovery of a cryptic species. *Journal of Zoological Systematics and Evolutionary Research* 48 (4): 285-293.
- Nilsson, R.H., Abarenkov, K., Veldre, V., Nylinder, S. **De Wit, P.**, Brosché, S., Alfredsson, J.F., Ryberg, M. & Kristiansson, E. (2010). An open source chimera checker for the fungal ITS region. *Molecular Ecology Resources* 10: 1076-1081.
- Zhou, H., Fend, S.V., Gustafson, D.L., **De Wit, P.** & Erséus, C. (2010). Molecular phylogeny of Nearctic species of *Rhynchelmis* (Annelida). *Zoologica Scripta* 39 (4): 378-393.
- De Wit, P.** (2010). Systematics of *Grania* (Clitellata: Enchytraeidae), an interstitial annelid taxon. Ph.D. thesis. ISBN 978-91-628-8012-5. Gothenburg, Sweden, Intellecta Infolog.
- De Wit, P.**, Rota, E. & Erséus, C. (2009). *Grania* (Annelida: Clitellata: Enchytraeidae) of the Great Barrier Reef, Australia, including four new species and a re-description of *Grania trichaeta* Jamieson, 1977. *Zootaxa* 2165: 16-38.
- De Wit, P.** & Erséus, C. (2007). Seven new species of *Grania* (Annelida: Clitellata: Enchytraeidae) from New Caledonia, South Pacific Ocean. *Zootaxa* 1426: 27-50.
- De Wit, P.** (2006). *Grania marivola*. *Fauna & Flora* 101:2: 25.
- De Wit, P.** & Kvist, S. Genetic variation in Swedish marine clitellates. Poster presented at Systematikdagarna 2008, Uppsala, Sweden 24-25 November 2008.

AWARDS AND INDEPENDENT FUNDING

I received HPU's academic excellence award 2003. During my Ph.D. I applied for and received additional funding for laboratory expenses, conference participation and collecting trips from The Royal Society of Arts and Sciences in Göteborg (1 year), Lundgren's Science Fund (3 years) and Helge Ax:son Johnson's Foundation (2 years). My

postdoctoral project proposal was conceived by me and Prof. Stephen Palumbi, and has received 2 years of salary funding from Marcus and Amalia Wallenberg's Foundation.

REFeree WORK

I have since 2009 been an active referee for *Zoologica Scripta*, reviewing 4 manuscripts, and since January 2011 been a referee for *Invertebrate Systematics* and the *Proceedings of the Biological Society of Washington*.

SPOKEN LANGUAGES

- Swedish – Mother Tongue
- French – Fluent
- English – Fluent
- German – Well
- Spanish - Intermediate
- Japanese – Beginner

CERTIFICATES

- First Aid and CPR from the American Red Cross, DAN O₂ provider.
- AAUS Scientific Diver
- Laboratory animal handling
- Swedish Ship Commanding (Skipper) license, class VIII

REFERENCES

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Swedish Museum of Natural History

Prof. Stephen R. Palumbi (Director of Hopkins Marine Station)

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