

CURRICULUM VITAE

Lars Schmitz

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PERSONAL INFORMATION

Date of birth	June 28, 1978
Birthplace	Halle in Westfalen, Germany
Nationality	German

RESEARCH INTERESTS

Paleobiology of fossil vertebrates
Biooptics and biomechanics
Evolution of sensory organs
Evolution of marine reptiles

EDUCATION

09/2004	Transferred to University of California, Davis. Dissertation: Visual Optics of Fossil Vertebrates. Supervisor: Ryosuke Motani.
09/2003	Enrolled in Geology (PhD program), University of Oregon, Eugene. Dissertation: Visual Optics of Fossil Vertebrates. Supervisor: Ryosuke Motani.
03/2002	Diplom in Geology/Paleontology; Institut für Paläontologie, Rheinische Friedrich-Wilhelms-Universität Bonn (Germany).
06/2000	Vordiplom in Geology/Paleontology
09/1998	Enrolled in Geology/Paleontology, Rheinische Friedrich-Wilhelms-Universität Bonn (Germany).
06/1997	Abitur , Kreisgymnasium Halle in Westfalen (Germany)

TEACHING EXPERIENCE

09/2005 – 06/2006	Teaching Assistant at the University of California, Davis, Department of Geology (Geology 3: History of Life, Geology 4: Evolution, Science and World View, Geology 107: Paleobiology).
09/2003 – 06/2004	Graduate Teaching Fellow at the University of Oregon, Eugene, Department of Geological Sciences (Geology 101: Earth's Dynamic Interior, Geology 103: Evolving Earth; Geology 434/534: Vertebrate Paleontology).

RESEARCH EXPERIENCE

- 10/2004 – 08/2005** Graduate Student Researcher, University of California, Davis, Department of Geology.
- 06 – 09/2004** Research Assistant, University of Oregon, Eugene, Department of Geological Sciences.

FIELD WORK EXPERIENCE

- 07/2006** Excavation in South China
- 05/2006** Survey in the Middle Triassic of Nevada (1 week)
- 09/2004** Field trip to Triassic fossil lagerstaetten in South China.
- 08 – 09/2002** Geological mapping, Mesozoic and Cenozoic, Crimea Island, Ukraine.
- 1998 – 2002** Various field trips (1-3 weeks each) to localities in Europe and the USA, organized by University of Bonn.
- 1994 – 1998** **Field Assistant** at geological-paleontological excavations of University of Münster (Germany). Duration: Two month each summer.

CURATORIAL EXPERIENCE

- 03 – 04/2001** **Curatorial Assistant:** designing and preparing exhibit: "Seeskorpiene und Panzerfische" in the "Siebengebirgsmuseum" in Königswinter (Germany).
- 03 – 04/2000** **Curatorial Assistant:** designing and preparing exhibit: "Allgemeine Paläontologie" in the "Goldfussmuseum", Bonn (Germany).
- 02/1999** **Curatorial Assistant:** designing and preparing exhibit: "240 Mio. Jahre Erdgeschichte im Teutoburger Wald" in Halle, (Germany).

ADDITIONAL RELATED WORK EXPERIENCE

- 10/1998 – 10/2002** **Student Assistant** at the Institut für Paläontologie, Universität Bonn (Germany).

FELLOWSHIPS, AWARDS, PRIZES, AND GRANTS

- 08/2005 – 07/2007** DAAD (German Academic Exchange Service) Doctoral Stipend
- 2005** Bernd-Rendel Prize of DFG (Deutsche Forschungsgemeinschaft)
- 2005** UC Davis and Humanities Graduate Research Award
- 02 and 09/2004** Travel Grant, Peking University
- 10/2003** Travel Grant, Dept. of Geological Sciences, University of Oregon, Eugene.
- 09/2003 – 06/2004** Graduate Teaching Fellowship, University of Oregon, Eugene.
- 10/2002** HIGH LAT Award, European Commission's program for "Improving the Human Research Potential and the Socio-

- 07/2002 Economic Knowledge Base" (IHP), NRM Stockholm (Sweden).
Samuel P. and Doris Welles Award, UCMP Berkeley, California.
- 1997 Awards for excellent school achievement and for special social commitment (Kreisgymnasium Halle)

INVITED TALKS

- 05/2007 California Academy of Sciences, San Francisco: "Visual Optics, Diel Activity Pattern, and Fossil Birds".

PROFESSIONAL ASSOCIATIONS

Paläontologische Gesellschaft,
Society of Vertebrate Paleontology,
Paleontological Society.

OTHER WORK EXPERIENCE

- 07/1997 – 08/1998 Alternative civilian service in Harsewinkel (Germany).

PUBLICATIONS

- JIANG, D.-Y., SCHMITZ, L., MOTANI, R., HAO, W.-C., & Y.-L. SUN (2007): The mixosaurid ichthyosaur *Phalarodon* cf. *P. fraasi* from the Middle Triassic of Guizhou Province, China. *Journal of Paleontology*, **81**: 602-605.
- JIANG, D.-Y., SCHMITZ, L., HAO, W.-C. & Y.-L. SUN (2006). A new mixosaurid ichthyosaur from the Middle Triassic of China. *Journal of Vertebrate Paleontology*, **26**:60-69.
- SCHMITZ, L. (2005): The taxonomic status of *Mixosaurus nordenskiöldii* (Ichthyosauria). *Journal of Vertebrate Paleontology*, **25**:983-985.
- JIANG, D.-Y., MOTANI, R., LI, C., HAO, W.-C., SUN, Y.-L., SUN, Z.-Y., & L. SCHMITZ (2005). A marker of Triassic biotic recovery from the end-Permian extinction in the ancient Guizhou Sea. *Acta Geologica Sinica - English Edition*, **79**:729-738.
- KRIWET, J. & L. SCHMITZ (2005): New insight into the distribution and palaeobiology of the pycnodont fish *Gyrodus*. *Acta Palaeontologica Polonica*, **50**: 49-56.
- SCHMITZ, L., SANDER, M., RIEPEL, O. & STORRS, G. (2004): The mixosaurs (Ichthyosauria, Mixosauridae) from the Middle Triassic of the Augusta Mountains (Nevada, USA) with the description of a new species. – *Palaeontographica, A*, **270**: 133-162.
- CUNY, G., OUAJA, M., SRARFU, D., SCHMITZ, L., BUFFETAUT, E., & M. BENTON (2004): Fossil sharks from the Lower Cretaceous of Tunisia. *Revue de Paléobiologie, volume spéciale*, **9**:127-142.
- SCHMITZ, L. (2003): Fischzähne (Neoselachii; Actinopterygii) aus dem Unter-Barremium von NW-Deutschland. *Neues Jahrbuch für Geologie und Paläontologie*, **227**: 175-199; Stuttgart.

PUBLISHED ABSTRACTS

- SCHMITZ, L., MOTANI, R. & A. MILNER (accepted): Diel activity pattern of *Archaeopteryx*. *Journal of Vertebrate Paleontology* (supplement).

- SCHMITZ, L. (2006): Visual Optics as important link between anatomy and ecology in fossil amniotes. *Ancient Life and Modern Approaches. Abstracts of the Second International Paleontological Congress*, 397.
- TINTORI, A., SCHMITZ, L., JIANG, D.-Y., LOMBARDO, C. & R. MOTANI (2006): Durophagy in Triassic marine vertebrates. *Ancient Life and Modern Approaches. Abstracts of the Second International Paleontological Congress*, 400.
- JIANG, D.-Y., HAO, W.-C., SUN, Y.-L., MOTANI, R. & L. SCHMITZ (2006): First record of placodontoidea (Reptilia, Sauropterygia, Placodontia) from the eastern Tethys. *Journal of Vertebrate Paleontology*, **26** (3, supplement):82A.
- MOTANI, R., MILNER, A., & L. SCHMITZ (2006): The first truly objective method for 3D removal of geological deformation with an application to the braincase of *Archaeopteryx*. *Journal of Vertebrate Paleontology*, **26** (3, supplement):103A.
- SCHMITZ, L., JIANG, D., MOTANI, R., HAO, W., & Y. SUN (2005): Explosive radiation of durophagous marine reptiles during the post-Permian recovery. *Journal of Vertebrate Paleontology*, **25** (3, supplement):110A.
- JIANG, D., HAO, W., SUN, Y., SUN, Z., & L. SCHMITZ (2005): Two nothosaurids (Reptilia, Sauropterygia) from the Anisian (Middle Triassic) of southwestern China. *Journal of Vertebrate Paleontology*, **25** (3, supplement):75A.
- JIANG, D., MOTANI, R., SCHMITZ, L., HAO, W. & Y. SUN (2005): Explosive radiation of shell-eating marine reptiles during the post-Permian recovery. *International Symposium on Triassic Chronostratigraphy and Biotic Recovery. Chaohu, China. Albertiana* **33**:43.
- SCHMITZ, L., JIANG, D., MOTANI, R., HAO, W., & Y. SUN (2005): Early radiation and geographic dispersal of ichthyopterygians (Reptilia, Diapsida). *International Symposium on Triassic Chronostratigraphy and Biotic Recovery. Chaohu, China. Albertiana* **33**:69.
- SCHMITZ, L. (2004): Possibility of a thick sclera in ichthyosaurs and its implications for visual capabilities. *Journal of Vertebrate Paleontology*, **24** (3, supplement):110A
- JIANG, D.-Y., SCHMITZ, L., & W.-C. HAO (2004): Two species of Mixosauridae (Ichthyosauria) from the Middle Triassic of south-western China). *Journal of Vertebrate Paleontology*, **24** (3, supplement):76A
- SCHMITZ, L. (2004): Inferring visual capabilities of the Triassic ichthyosaur *Mixosaurus callawayi*. *International Geological Congress*.
- SCHMITZ, L. (2004): Mixosaurs (Ichthyosauria) from the Middle Triassic of Nevada (USA). *Proceedings of the Oregon Academy of Science*, **XL**: 34.
- SCHMITZ, L. (2003): The mixosaurs (Ichthyosauria) from the Middle Triassic of Nevada (USA): implications for the systematics of the group. *Journal of Vertebrate Paleontology*, **23** (3, supplement): 74A.
- SCHMITZ, L. & SANDER, M. (2002): Phylogenetic implications of new mixosaur (Ichthyosauria) material from the Middle Triassic of Nevada (USA). - *Schriftenreihe der Deutschen Geologischen Gesellschaft*, **21**: 299-300.
- SCHMITZ, L. (1999): Fischreste (Actinopterygier und Selachier) aus dem Osningsandstein (Unteres Barrême) von Halle/Westfalen im Teutoburger Wald [Fish teeth (actinopterygians and selachians from the Osning Sandstone (lower Barremian) of Halle/Westf. in the Teutoburg Forest]. - *Terra Nostra*, **99**(8): 112; Berlin.