

# *Curriculum Vitae*

**Sebastian Stumpf**

Dr. rer. nat.

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## **Education**

- 22/06/2017: Dissertation in Geology/Palaeontology, University of Greifswald, Germany

Thesis title: *A synoptic review of the vertebrate fauna from the “Green Series” (Toarcian) of northeastern Germany with descriptions of new taxa: A contribution to the knowledge of Early Jurassic vertebrate palaeobiodiversity patterns (“magna cum laude”)*

- 04/2010–12/2012: M.Sc. studies, Geoscience and Environment, University of Greifswald, Germany
- 10/2006–04/2010: B.Sc. studies, Geology, University of Greifswald, Germany

## Professional Experience

- 09–10/2010: Palaeontological excavation in the middle Eocene Eckfeld maar, Rhineland Palatine, Germany
- 2011: Assistance in planning, development and supervising the special exhibition “Ein Dinosaurier mit dem Namen der Uni Greifswald”, 10 – 11/2011, University of Greifswald (555th Anniversary of the University of Greifswald)
- 2012–2016: Scientific assistant, Chair of Palaeontology and Historical Geology, Institute of Geography and Geology, University of Greifswald
- 2013: Assistance in planning and development of the special exhibition “Wissen sammeln. Die digitalisierten Schätze der Universität Greifswald. Sammlungsobjekte der Geologie und Medizingeschichte”, 02 – 05/2013, University of Greifswald,
- 06/2015: Palaeontological excavation in the Upper Jurassic lithographic limestones of Ettling, Bavaria, Germany
- since 03/2017: Participating member of the IGCP Project Unit 655–Toarcian-Oceanic Anoxic Event: Impact on marine carbon cycle and ecosystems (for more information please see <http://igcp655-toae.com>)

## Academic Grants

- 10/2013–10/2016: Ph.D. scholarship of the state of Mecklenburg-Western Pomerania, Germany

## Academic / Professional Societies

- German Palaeontological Society
- Austrian Palaeontological Society
- Society of Vertebrate Palaeontology

## Service for Learned Societies

- Secretary of Austrian Palaeontological Society (since October 2018)

# Conference and Symposia

## Conference Organisations

- 46. Treffen des Arbeitskreises Wirbeltierpaläontologie in der Paläontologischen Gesellschaft, 15.-17.03.2019 in Wien, Österreich. Co-organizer: U. Göhlich & J. Kriwet

## Conference Presentations

- 90<sup>th</sup> Annual Meeting of the Paleontological Society (Paläontologische Gesellschaft), Munich, Germany (Sept. 2019)
  - **Talk:** Of teeth and spines: The riddle of *Strophodus*' (Hybodontiformes, Chondrichthyes) validity (Co-authors: F.A. López-Romero, R. Kindliman & J. Kriwet).
  - **Talk:** Stomach Contents of the Early Jurassic Fish † *Lepidotes* AGASSIZ, 1832 (Actinopterygii, Lepisosteiformes) (Co-authors: D. Thies (presenter) & K. Stevens).
- 3<sup>rd</sup> International Workshop on the Toarcian Oceanic Anoxic Event, Erlangen, Germany (Sept. 2019)
  - **Talk:** On the diversity of Early Jurassic cartilaginous fishes across the Toarcian Oceanic Anoxic Event (Co-authors: F.A. López-Romero & J. Kriwet).
- 12<sup>th</sup> International Congress of Vertebrate Morphology (ICVM), Prague, Czech Republic (July 2019)
  - **Talk:** Never change a winning team: the Jurassic skeletal fossil record of †Hybodontiformes reveals new insights into taxonomic diversity and ecomorphological disparity of Mesozoic (Co-authors: F.A. López-Romero & R. Kindlimann & J. Kriwet).
  - **Talk:** Evolutionary trends and the phylogenetic relevance of tooth mineralization patterns in sharks (Chondrichthyes; Elasmobranchii) (Co-

authors: P.L. Jambura (presenter), J. Türtscher, R. Kindlimann, G. Marmà, B. Metscher, Pfaff, C., C.J. Underwood, D.J. Ward & J. Kriwet).

- 111<sup>th</sup> Annual Meeting of the German Zoological Society, Greifswald, Germany (Sept. 2018)
  - **Talk:** What is a catshark? On the taxonomy and systematics of Mesozoic Carcharhiniformes (Elasmobranchii) (Co-authors: U. Scheer & J. Kriwet).
- 5<sup>th</sup> International Paleontological Congress, Paris, France (July 2018)
  - **Talk:** Fine-scale diversity analysis of Jurassic Chondrichthyes disproves competition between Jurassic elasmobranch and hybodontiform fishes. (Co-author: J. Kriwet).
- 45. Arbeitskreistreffen Wirbeltierpaläontologie, Magdeburg, Germany (March 2018)
  - **Talk:** New information on the diversity of Jurassic cartilaginous fishes (Co-author: J. Kriwet).
- 19. Jahrestagung Gesellschaft für Biologische Systematik, Vienna, (Feb. 2018)
  - **Talk:** New information on the diversity of Early Jurassic neoselachian sharks and rays and implications for a post-Pliensbachian neoselachian distributional turnover (Co-author: J. Kriwet).
- 44. Arbeitskreistreffen Wirbeltierpaläontologie, Münster, Germany (2017)
  - **Talk:** Zur Diversität unterjurassischer pycnodontiformer Fische (Actinopterygii, Neopterygii) (co-authors: J. Ansorge, C. Pfaff & J. Kriwet).
  - **Talk:** Revision von *Saurorhynchus* (Actinopterygii, Saurichthyidae) aus dem Unterjura von England und Deutschland (co-author: E.E. Maxwell).
- 87<sup>th</sup> annual meeting of the Paläontologische Gesellschaft, Dresden, Germany (2016)
  - **Poster:** A second skeleton of a rhomaleosaurid plesiosaur from the Toarcian of Holzmaden (Co-authors: M. Schade & C. Kettler).

- **Poster:** New information on the ichthyofauna from the late Early Jurassic Fossil-Lagerstätten of Grimmen and Dobbertin, NE Germany (Co-author: M. Konwert).
- 43. Arbeitskreistreffen Wirbeltierpaläontologie, Thallichtenberg, Germany (2016)
  - **Talk:** Weichteilerhaltung bei *Leptolepis* (Actinopterygii, Teleostei) aus Grimmen und Dobbertin, NE Deutschland (Co-author: M. Konwert, presenter).
- 86<sup>th</sup> annual meeting of the Paläontologische Gesellschaft, Schiffweiler, Germany (2015)
  - **Talk:** Vertebrate remains from the shallow-marine Early Jurassic (Lower Toarcian) “Green Series” clay of Grimmen, Western Pomerania, NE Germany.
- 42. Arbeitskreistreffen Wirbeltierpaläontologie, Ahrensburg, Germany (2015)
  - **Talk:** Wirbeltierreste aus dem Unteren Toarcium (Unterer Jura) von Grimmen, Nordostdeutschland.
- 82<sup>nd</sup> annual meeting of the Paläontologische Gesellschaft, Vienna, Austria (2011)
  - **Poster:** Plesiosaur remains from the Liassic clay pit of Klein-Lehmhagen near Grimmen, NE Germany.

## Publications

### Scientific Publications (\* = non-peer reviewed)

- **Stumpf, S.** & S. Meng. 2013. Verschleppt: Dinosaurier aus Nordostdeutschland. *Biologie in unserer Zeit* 43:362–368.\*
- **Stumpf, S.**, J. Ansorge & W. Krempien. 2015. Gravisaurian sauropod remains from the late Early Jurassic (Lower Toarcian) of North-Eastern Germany. *Geobios* 48:271–279.

- **Stumpf, S.** 2016. New information on the marine reptile fauna from the lower Toarcian (Early Jurassic) “Green Series” of North-Eastern Germany. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen* 280(1):87–105.
- Konwert, M. & **S. Stumpf.** 2017. Exceptionally preserved Leptolepidae (Actinopterygii, Teleostei) from the late Early Jurassic Fossil-Lagerstätten of Grimmen and Dobbertin (Mecklenburg-Western Pomerania). *Zootaxa* 4243(3):249–296.
- Maxwell, E. E. & **S. Stumpf.** 2017. Revision of *Saurorhynchus* (Actinopterygii: Saurichthyidae) from the Early Jurassic of England and Germany. *European Journal of Taxonomy* 321:1–29.
- **Stumpf, S.**, J. Ansorge, C. Pfaff & J. Kriwet. 2017. Early Jurassic diversification of pycnodontiform fishes (Actinopterygii, Neopterygii) after the end-Triassic extinction event: Evidence from a new genus and species, *Grimmenodon aureum*. *Journal of Vertebrate Paleontology*. DOI:10.1080/02724634.2017.1344679
- **Stumpf, S.**, Scheer, U. & J. Kriwet. 2019. A new genus and species of extinct ground sharks, †*Diprosopovenator hilperti* gen. et. sp. nov. (Carcharhiniformes, †Pseudoscylorhinidae fam. nov.), from the Late Cretaceous of Germany. *Journal of Vertebrate Paleontology*: 39: e1593185. DOI:10.1080/02724634.2019.1593185
- **Stumpf, S.** & J. Kriwet. 2019. A new Pliensbachian elasmobranch (Vertebrata, Chondrichthyes) assemblage from Europe, and its contribution to the understanding of late Early Jurassic elasmobranch diversity and distributional patterns. *PalZ*. DOI:10.1007/s12542-019-00451-4
- Jambura, P.L., Kindlimann, R., Marramà, G., Pfaff, C., **Stumpf, S.**, Türtscher, J., Underwood, C.J., Ward, D.J. & J. Kriwet. 2019. Micro-computed tomography imaging reveals the development of a unique tooth mineralization pattern in mackerel sharks (Chondrichthyes; Lamniformes) in deep time. *Scientific Reports*, 9, 9652: 1–13. DOI: 10.1038/s41598-019-46081-3
- Thies, D., Stevens, K & **S. Stumpf.** 2019. Stomach contents of the Early Jurassic fish †*Lepidotes* Agassiz, 1832 (Actinopterygii, Lepisosteiformes) and their palaeoecological implications. *Historical Biology*. DOI:10.1080/08912963.2019.1665040

## Published Conference Presentations

- **Stumpf, S.** 2011. Plesiosaur remains from the Liassic clay pit of Klein-Lehmhagen near Grimmen, NE Germany. *Beiträge zur Paläontologie* 32:78.
- **Stumpf, S.** 2015. Vertebrate remains from the shallow-marine Early Jurassic (Lower Toarcian) “Green Series” clay of Grimmen, Western Pomerania, NE Germany. *ZfB-Scriptum, Veröffentlichungen des Zentrums für Biodokumentation* 4:52.
- **Stumpf, S., M. Schade & C. Kettler.** 2016. A second skeleton of a rhomaleosaurid plesiosaur from the Toarcian of Holzmaden. *Fossils: Key to evolution, stratigraphy and palaeoenvironments*: 150, Saxoprint GmbH, Dresden.
- **Stumpf, S. & M. Konwert.** 2016. New information on the ichthyofauna from the late Early Jurassic Fossil-Lagerstätten of Grimmen and Dobbertin, NE Germany. *Fossils: Key to evolution, stratigraphy and palaeoenvironments*: 151, Saxoprint GmbH, Dresden.
- **Stumpf, S. & J. Kriwet.** 2018. New information on the diversity of Early Jurassic neoselachian sharks and rays and implications for a post-Pliensbachian neoselachian distributional turnover. In: Pfaff, C., Zimmermann, D. & J. Kriwet (eds): *19. Jahrestagung Gesellschaft für Biologische Systematik, Abstract volume*: 50; Verlag Dr. Friedrich Pfeil, Munich.
- **Stumpf, S. & J. Kriwet.** 2018. Fine-scale diversity analysis of Jurassic Chondrichthyes disproves competition between Jurassic elasmobranch and hybodontiform fishes. *5<sup>th</sup> International Paleontological Congress, Abstract volume*: 125, Paris.
- **Stumpf, S. Scheer, U. & J. Kriwet.** 2018. What is a catshark? On the taxonomy and systematics of Mesozoic Carcharhiniformes (Elasmobranchii). *111<sup>th</sup> Annual Meeting of the German Zoological Society, Abstracts*: 292.
- **Stumpf, S., López-Romero, F.A., R. Kindlimann & J. Kriwet.** 2019. Never change a winning team: the Jurassic skeletal fossil record of †Hybodontiformes reveals new insights into taxonomic diversity and ecomorphological disparity of Mesozoic.

*Journal of Morphology, Supplement 280 (International Congress of Vertebrate Morphology (ICVM) Abstract Issue): 226.*

- Jambura, P.L., Türtscher, J., Kindlimann, R., Marramà, G., Metscher, B., Pfaff, C., **Stumpf, S.**, Underwood, C.J., Ward, D.J. & J. Kriwet. 2019. Evolutionary trends and the phylogenetic relevance of tooth mineralization patterns in sharks (Chondrichthyes; Elasmobranchii). *Journal of Morphology, Supplement 280 (International Congress of Vertebrate Morphology (ICVM) Abstract Issue): 1545.*
- **Stumpf, S.**, López-Romero, F.A., R. Kindlimann & J. Kriwet. 2019. Of teeth and spines: The riddle of *Strophodus*' (Hybodontiformes, Chondrichthyes) validity. In: Nützel, A., Reichenbacher, B. & M. Krings (eds): *Paleo & Life – Abstracts of the 90<sup>th</sup> Annual Meeting of the Paläontologische Gesellschaft, Munich*: 143; SNSB-BSPG, München.
- Thies, D., Stevens, K. & **S. Stumpf**. 2019. Stomach Contents of the Early Jurassic Fish † *Lepidotes* AGASSIZ, 1832 (Actinopterygii, Lepisosteiformes). In: Nützel, A., Reichenbacher, B. & M. Krings (eds): *Paleo & Life – Abstracts of the 90<sup>th</sup> Annual Meeting of the Paläontologische Gesellschaft, Munich*: 144; SNSB-BSPG, München.
- **Stumpf, S.**, López-Romero, F.A. & J. Kriwet. 2019. On the diversity of Early Jurassic cartilaginous fishes across the Toarcian Oceanic Anoxic Event. *PeerJ Preprints* 7:e27975v1. DOI:10.7287/peerj.preprints.27975v1

## Unpublished Conference Presentations

- **Stumpf, S.** 2015. Wirbeltierreste aus dem Unteren Toarcium (Unterer Jura) von Grimmen, Nordostdeutschland. 42. Arbeitskreistreffen Wirbeltierpaläontologie, Ahrensburg, Germany.
- Konwert, M. & **S. Stumpf**. 2016. Weichteilerhaltung bei *Leptolepis* (Actinopterygii, Teleostei) aus Grimmen und Dobbertin, NE Deutschland. 43. Arbeitskreistreffen Wirbeltierpaläontologie, Thallichtenberg, Germany.



- **Stumpf, S.**, J. Ansorge, C. Pfaff & J. Kriwet. 2017. Zur Diversität unterjurassischer pycnodontiformer Fische (Actinopterygii, Neopterygii). 44. Arbeitskreistreffen Wirbeltierpaläontologie, Münster, Germany.
- Maxwell, E.E. & **S. Stumpf**. 2017. Revision von *Saurorhynchus* (Actinopterygii, Saurichthyidae) aus dem Unterjura von England und Deutschland. 44. Arbeitskreistreffen Wirbeltierpaläontologie, Münster, Germany.
- **S. Stumpf** & J. Kriwet. 2018. New information on the diversity of Jurassic cartilaginous fishes. 45. Arbeitskreistreffen Wirbeltierpaläontologie, Magdeburg, Germany.