**LATIMER, ASHLEY EMILIE**

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Nationalities: French, New Zealander

## Current Employer

[Bio CT specialist at Australian National University](http://microscopy.anu.edu.au/about-us/people/ashley-e-latimer)

## Education

2014-2018: **PhD**, Evolutionary Biology, **Paleontology** March 2017

The University of Zurich, Department of Paleontology, Supervisor: **Torsten Scheyer**

Co supervisor Marcelo Sanchez

July 2017-March 2018 Visitor at Australian National University, Scott Keogh

Title: From Trees to Seas: Phylogeny and Ecology as Predictors for Semicircular Canal Morphology

2011-2014: **MSc** in Geological Sciences, **Paleontology,** April 2014

The University of Texas at Austin, Jackson School of Geosciences

Title: Redescription of teeth and epithelial plates from the platypus (*Ornithorhynchus anatinus*): morphological and evolutionary implications

2008-2011: **BS in Geological Sciences, Environmental Geology**, August 2011

The University of Texas at Austin, Jackson School of Geosciences

Research interests

3D modeling techniques Sensory Transitions Predicting Ecology from morphology

Vertebrate morphology

## Skills

Fluent in French

**Technical operation** of scanning electron microscopes(SEM), Nikon 3D Computed Tomography scanner (CT)

**Software proficiencies** in VG Studio Max, 3D Slicer, Meshlab, MeshTools, R, Adobe and Microsoft packages

## Field Experience

Collected Jurassic and Triassic invertebrates, Eastern and Northern **France** 8/2015

Collected Devonian invertebrates, Tafilalt Basin, **Morocco** 3/2015

Overview of Triassic vertebrate localities in Southern **Germany** 8/2014

Collected Miocene vertebrates, Devil’s Graveyard badlands in **West Texas**, 1/2014

Collected Cambrian to Silurian echinoderms, localities in **Oklahoma**, 8/2013

Controlled excavation of Pleistocene vertebrate material from a stratified deposit in a **West Texas** cave, Crockett Co. 3/2013

Collected Cambrian to Devonian invertebrate communities in Western **Utah** 7/2011

Led undergraduate student field trips for classes in Austin, **Texas** focusing on geology and fossils of the local area 2013, 2012, 2011

Collections and Curatorial Experience

**Vertebrate Paleontology Laboratory**, The University of Texas at Austin Pickle Campus, 2012

Responsibilities included cataloging and moving a section of the vertebrate collection, conserving and cross-checking information with the database, physically relocating specimens to new cabinets, accessioning new field material to the collections.

**Nonvertebrate Paleontology Laboratory**, The University of Texas at Austin Pickle Campus, 2010

Responsibilities included photographing collection materials with a light box and camera stand, entering data in collections databases using Specify and Microsoft Access, cleaning and conserving recent endangered and extinct mussel collections, identifying and curating fossil invertebrate material.

Teaching Appointments

**The University of Zurich**

**Miscellaneous Lectures** – Sensory Systems and Skulls, Spring 2014, Fall 2015, Fall 2016

**Teaching Assistant,** **Vertebrate morphology**, Spring 2015, Spring 2016, Spring 2017

Responsibilities included writing a lecture and assignment for students, designing and supervising multiple student projects

**The University of Texas at Austin**

**Teaching Assistant,** **Introductory** **Geology**, Spring 2013

Responsibilities included coordinating two large separate lab groups meeting twice per week, rewriting and updating fossil lab section, driving students to field sites and leading field trips, grading assignments.

**Head Teaching Assistant**, **Paleobiology**, Fall 2012, Fall 2011

Responsibilities included teaching classes of 20 students twice a week on topics across the tree of life, driving students to field sites, designing and writing quizzes and tests, preparing laboratory sections, grading assignments.

**Head Teaching Assistant**, **Plate Tectonics and Earth History**, Spring 2012

Responsibilities included teaching classes across the tree of life and geological principals, designing and writing quizzes and tests, preparing laboratory sections, grading assignment, driving students to field sites.

Professional Experience

**English Editing**

University of Zurich Paleontological Institute and Museum, 2014-Present

Plaques for the Monte San Giorgio World Heritage Site, English Translations

**Exploration Geology Internship**

Imagine Resources, LLC, Summer 2009, Winter 2009, Summer 2010

Responsibilities included creating digital cross sections used in publication

(Cornish, F. G. 2011. Incised Valleys of the Upper Wilcox, Middle Texas Gulf Coast: Additional Pathways for Wilcox Sand Delivery to the Deep Gulf of Mexico. South Texas Geological Society Bulletin 52:15-48), copying, rectifying, and importing maps to TKS, digitizing and correlating well logs, retrieving well logs from various sources, integrating physical and digital media to create attractive prospect presentations, providing technical support for programs and devices.

Honors, Awards, and Achievements

2014: MS Tech Sessions speaker award

2012, 2013: Lundelius Scholarship; UT

2012: Dorothy Ogden Carsey Memorial Scholarship Fund; UT

2011: Bloomer Fund for Motivated Students; UT

2010: The Louis and Elizabeth Scherck Geology Scholarship; UT

2008-2013: Jackson School Scholarship; UT

2008: Daughters of the American Revolution Scholarship

2008: Ms Pete Scholarship

Professional Memberships and Service

2016 – 2018 American Society of Naturalists

2014 – Present European Association of Vertebrate Paleontology

2011 – Present Society of Vertebrate Paleontologists

Presentations and Outreach

2017: Invited presentation at Neuroanatomy group in the University of Zurich

2016: Public talk - Balance and Orientation-Lange Nacht der Museen, Zurich Switzerland

2015: Public talk - Skulls and sensory systems -Lange Nacht der Museen, Zurich Switzerland

2014: Lange Nacht at the Museum

2013: Explore UT, annual public event at the university, Presented on fossils, anatomy and, evolution

2008: Representative of the Texas Coastal Bend, Presented on ocean literacy and conservation at the Second National Student Summit on Oceans and Coasts in Washington D.C.

Abstracts and Professional Society Talks

Latimer, A. E. 2016. Neurocranial morphology of a new large Late Triassic neopterygian fish and deep bodied fishes on the teleost stem. Society of Vertebrate Paleontologists 76th annual meeting, Berlin, Germany (talk).

Latimer, A. E. 2016. 3D reconstruction of a Late Triassic neopterygian braincase – ecological implications of the neurocranium, and the phylogeny of Neopterygii. Evolution (talk).

Latimer, A. E. 2015 Digital endocranial reconstruction of a large Triassic actinopterygian from Schesaplana, Switzerland, European Association of Vertebrate Palaeontologists 13th annual meeting, Opole, Poland (poster presentation).

Latimer, A. E. and T. Rowe. 2014 Structure and function of thickened epithelial plates (cornules) in the extant platypus (Ornithorhynchus anatinus) revisited with SEM and CT. European Association of Vertebrate Palaeontologists 12th annual meeting, Torino, Italy (poster presentation).

Latimer, A. E, T. Rowe. 2014. Juvenile platypus (Ornithorhynchus anatinus) teeth are diverse: morphological and features and evolutionary implications of a reduced dentition. p 166. Society of Vertebrate Paleontologists 74th annual meeting, Berlin, Germany (poster presentation).

Burroughs, R. W., C. J. Bell, A. E. Latimer, and E. C. Kirk. 2011. Fossil turtles from the Devil’s Graveyard Formation of southwest Texas: Large terrestrial turtles and a geographic range extension for carettochelyid turtles. Pp. 91-92 in Texas Academy of Science 114th Annual Meeting Program, March 3-5th 2011 St. Edward’s University.

Publications

Latimer AE, Giles S. 2018 A giant dapediid from the Late Triassic of Switzerland and insights into neopterygian phylogeny.

Latimer AE, Loza CM, Sánchez-Villagra MR, Carlini AA. 2017 Supplemental information for "Sensory anatomy of the most aquatic of carnivorans: the Antarctic Ross seal, and convergences with other mammals".

Loza CM, Latimer AE, Sánchez-Villagra MR, Carlini AA. 2017 Sensory anatomy of the most aquatic of carnivorans: the Antarctic Ross seal, and convergences with other mammals. Biol. Lett. 20170489. MorphoMuseuM*.*

Mautner A-K, Latimer AE, Fritz U, Scheyer TM. 2017 An updated description of the osteology of the pancake tortoise *Malacochersus tornieri* (Testudines: Testudinidae) with special focus on intraspecific variation. J. Morphol. 278, 321-333. (doi:10.1002/jmor.20640)

Mautner A-K, Latimer AE, Uwe F, Scheyer. 2017 3D data and models related to the publication: An updated description of the osteology of the pancake tortoise *Malacochersus tornieri* (Testudines: Testudinidae) with special focus on intraspecific variation. MorphoMuseuM 2, 2-4.

Prepared Manuscripts

Latimer AE. Platypus (*Ornithorhynchus anatinus*) puggles chew with the teeth of adults. In Review *Journal of Mammalian Evolution*

Latimer AE, Sherratt E, Scheyer TM. Phylogeny not habit predicts semicircular canal morphology of limbed lepidosaurs. In prep.

Latimer AE, Bonnet T, Sherratt E, Scheyer TM. Shape and size of semicircular canals correlate with clade and body mass in reptiles. In prep.

Referee details are linked above under PhD.