

Stephanie Sang

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EDUCATION

University of Chicago - Ph.D candidate in Integrative Biology (Sept. 2016 - present)

University of Bristol - MSc. in Palaeobiology (Distinction) (Sept. 2016)

Cornell University - B.A. *summa cum laude* (May 2015)

Biological Sciences (Ecology & Evolutionary Biology) and Science of Earth Systems (Paleobiology)

Cumulative GPA: 3.87

GRE: 167 Verbal, 161 Quantitative, 5.5 Analytical

RESEARCH EXPERIENCE

University of Chicago, PhD dissertation. Research advisors: Dr. Michael Coates, Dr. Robert Ho (2016 - present)

- Development and evolution of paired fins in actinopterygians.

University of Bristol, MSc Thesis. Research Advisor: Dr. Jill Harrison (2015-2016)

- Regulation and development of the shoot apical meristem in moss *Physcomitrella patens*.

Paleontological Research Institution, B.A. Honors Thesis. Research Advisor: Dr. Warren Allmon (2012-2015)

- Built molecular and morphological phylogenies of Neotropical turritellines.
- Investigated the evolution of larval developmental mode in turritellines after the closure of the Central American Isthmus.

Case Western Reserve University, undergraduate summer research.

- Research Advisor: Dr. Darin Croft. Photographed and began to score microwear from Tertiary S. American mammal teeth, retouched photographs of mammal skulls to be used in a digital collection, checked and expanded the database of Tertiary S. American marsupicarnivores. (2010-2012)
- Research Advisor: Dr. Peter McCall. Processed data from and assisted set-up of experiments using cesium/fluorescent tracers in order to determine the effect of organisms on sediment types with applications in pollution control. (2012)

Kent State University, undergraduate summer research. Research Advisor: Dr. Chris Blackwood.

- Performed and assisted with soil microbiology laboratory techniques such as leaf chemical analysis, DNA isolation, gel electrophoresis, and sediment particle size analysis. (2012)

The Cleveland Museum of Natural History:

- Research Advisor: Dr. Michael Ryan (Department of Vertebrate Paleontology). Reconstructed bone beds based on bone bed grids, photographed specimens, and recorded bone data. (2011)
- Research Advisor: Dr. Joe Hannibal (Department of Invertebrate Paleontology). Prepared and catalogued specimens and their data. (2009)

PUBLICATIONS

Whitewoods, C. D., Cammarata, J., Venza, Z. N., **Sang, S.**, Crook, A. D., Aoyama, T., ... Szvnyi, P. (2018). "CLAVATA was a genetic novelty for the morphological innovation of 3D growth in land plants." *Current Biology*, 28(15) pp. 2365-2376.

Sang, S. and W.D. Allmon (2013). "Long Before Cayuga's Waters: The Spectacular Devonian Geology and Paleontology of the Ithaca, New York Region." *M.A.P.S. Digest v. 35*.

CONFERENCE PRESENTATIONS

Sang, S., Tietjen, K., and Coates, M.I., January 2018. "Getting a grip: the unexpected tooth-like form and arrangement of tenacular denticles" *Society for Integrative and Comparative Biology Annual Meeting*. Poster.

Sang, S., Aoyama, T., and Harrison, C.J., July 2016. "CLAVATA is an ancient pathway for regulating shoot apical meristem function" *Euro Evo Devo*. Poster.

Sang, S., Bell, S.C., and W.D. Allmon, November 2015. "Towards predicting accurate morphological character sets in turritellines" *Young Systematists' Forum*. Oral session. **Awarded best presentation.**

Sang, S., and W.D. Allmon, October 2014. "Phylogenetic histories of Central American turritelline gastropods" *Geological Society of America Annual Meeting*. Oral session.

Allmon, W.D., Anderson, B.M., Friend, D.S., Onofryton, K., and **S. Sang**, February 2014. "Toward a phylogeny of Western Atlantic Neogene Turritelline Gastropods" *North American Paleontological Conference*. Oral session.

Sang, S., Onofryton, K. and W.D. Allmon, October 2013. "Phylogeny, developmental mode, and evolution in geminate species of turritelline gastropods from the Central American Isthmus region" *Geological Society of America Annual Meeting*. Poster.

Sang, S., and W.D. Allmon, August 2013. "Differential evolutionary outcomes in turritelline gastropod geminate species across the Central American Seaway" *Paleontological Research Institute Summer Symposium*. Poster.

TEACHING EXPERIENCE

Cornell University Learning Strategies Center: Course Assistant for BIOG 1009 (Prefreshman Summer Program in Biology) (June - August 2013)

Kumon Math & Reading Center of Solon and Ithaca: Teaching assistant (2009 - 2011, 2013)

FIELD EXPERIENCE

Gatun Fm, Panama: Collected turritelline fossil protoconchs with researchers from the Smithsonian Tropical Research Institute (April 2014)

AWARDS AND GRANTS

Developmental Biology Training Grant (UChicago) trainee (2017-2019)

NSF GRFP, Honorable Mention (2016, 2017)

Alumni Travel Grant (Univ. Bristol) (2016)

American Alumni Scholarship (Univ. Bristol) (2015-2016) Half of international student tuition fees. Awarded on the grounds of academic excellence, financial need, and ambassadorial potential.

College of Arts and Sciences ‘Exceptional Senior’ (Cornell) (2015)

Michael W. Mitchell Memorial Fund (Cornell) (2015) Awarded to outstanding juniors or seniors in the Science of Earth Systems major.

Frank H.T. Rhodes Award (Cornell) (2015) Given each year to the senior with the highest GPA in the Science of Earth Systems major.

ExxonMobil Minority Scholarship Award (GSA) (2014)

Student Travel Grant (GSA) (2014)

Office of Undergraduate Biology Travel Grant (Cornell) (2014)

Einhorn Discovery Grant (Cornell) (2014)

College of Arts and Sciences Undergraduate Research Grant (Cornell) (2014)

On To The Future (GSA) (2013) Funding for minority students to attend their first GSA annual meeting.

Dean’s List (Cornell) (2011-2015) 3.5 GPA or higher.

Hunter R. Rawlings III Presidential Research Scholar (Cornell) (2013-2015) Support account for Cornell students who are heavily involved in research

OUTREACH

Graduate Student Advisor and Founder, **UChicago Science Olympiad** (2016-present)

- Mission Statement: Increase scientific participation in middle and high schoolers in the surrounding community through the Science Olympiad program.
- Directed a Science Olympiad tournament for 600 high school students on campus. Raised over \$8000 to fund the competition, oversaw logistics and team recruitment, and mentored a group of 15 undergraduates in the planning committee. (2018)

Co-chair, **Science Olympiad Alumni Board** (2018-present)

- Oversee a committee created by the National Science Olympiad Executive Board to empower and activate the alumni base in order to improve the existing Science Olympiad program.

Co-organizer, **Art and Science Expo** (2017-present)

- Annual event that showcases artwork from UChicago researchers

Co-Founder and Director, **Science Olympiad at Cornell** (2014-2015)

- Planned and hosted a Science Olympiad competition for 500 high school students (2015). Raised over \$6000 in funding for the tournament and oversaw logistics.