

# Stephanie Sang

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## EDUCATION

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**University of Chicago** - Ph.D student in Integrative Biology (Sept. 2016-)

**University of Bristol** - MSc. in Palaeobiology (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

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**University of Bristol:** with Dr. Jill Harrison (January - September 2016)

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

**Paleontological Research Institution (PRI):** with Dr. Warren Allmon (January 2012 - current)

- “Towards predicting morphological character sets in turrnellines”: Built molecular and morphological phylogenies of Neotropical turrnellines. Developed a computational method of choosing morphological character sets congruent with the molecular phylogeny.
- “Inferring larval mode in turrnellines through a phylogenetic framework”: Investigated character evolution (larval developmental mode) of turrnellines after the closure of the Central American Isthmus.

**Case Western Reserve University:**

*Department of Anatomy*, with Dr. Darin Croft

- (June - August 2012): Photographed and began to score microwear from Tertiary S. American mammal teeth
- (June - August 2011): Retouched photographs of mammal skulls to be used in a digital collection
- (June - August 2010): Checked and expanded the database of Tertiary S. American marsupicarnivores by tracking down publications and cross-referencing names with specimen numbers, localities, and formations

*Department of Earth, Environmental, and Planetary Sciences*, with Dr. Peter McCall (June - August, 2012)

- 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

**Kent State University:**

*Department of Biological Sciences*, with Dr. Chris Blackwood (June - August, 2012)

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

**The Cleveland Museum of Natural History:**

*Department of Vertebrate Paleontology*, with Dr. Michael Ryan (May 2011)

- Reconstructed bone beds based on bone bed grids, photographed specimens, and recorded bone data

*Department of Invertebrate Paleontology Laboratory*, with Dr. Joe Hannibal (June - August, 2009)

- Prepared and catalogued specimens and their data.

## TEACHING EXPERIENCE

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**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

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

## PUBLICATIONS

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**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

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**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.

**Sang, S.**, and W.D. Allmon, April 2013. "Differential evolutionary outcomes in turritelline gastropod geminate species across the Central American Seaway" *Science of Earth Systems Student Association - Spring Symposium*. Poster.

## SKILLS

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**Languages:** Spanish, R

**Lab techniques:** DNA extraction, PCR, gel electrophoresis, scanning electron microscopy, basic inorganic and organic chemistry, isotope sampling, cloning, construction of amiRNA knockdown plasmids, phylogenetic analyses

## AWARDS AND GRANTS

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**Dean's List** 2011- current. 3.5 GPA or higher.

**Hunter R. Rawlings III Presidential Research Scholar** Support account for Cornell students who are heavily involved in research (\$5000)

**On To The Future - GSA** Funding for minority students to attend their first GSA annual meeting.

**Student Travel Grant - GSA**

**Office of Undergraduate Biology Travel Grant**

**Einhorn Discovery Grant**

**College of Arts and Sciences Undergraduate Research Grant**

**College of Arts and Sciences 'Exceptional Senior'**

**Michael W. Mitchell Memorial Fund** Awarded to outstanding juniors or seniors in the Science of Earth Systems major. (\$3500)

**Frank H.T. Rhodes Award** Given each year to the senior with the highest GPA in the Science of Earth Systems major. (\$2500)

**American Alumni Scholarship (Univ. Bristol)** Awarded on the grounds of academic excellence, financial need, and ambassadorial potential. (\$11800)

**GSA ExxonMobil Minority Scholarship Award**

**Alumni Travel Grant (Univ. Bristol)**

**NSF GRFP, Honorable Mention**

## OUTREACH

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

- Increasing scientific participation in the surrounding community through the Science Olympiad program for middle-high schoolers. We will be focusing on working with the Chicago Public School system, with an invitational targeted for 2017-2018.

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

- Planned and hosted a Science Olympiad competition for 500 high school students in Jan 2015

Author on "Fossils" National Event Rules, Science Olympiad (National Organization)

Volunteer at the Bristol Dinosaur Workshop (November 2015, March 2016)

Volunteer at the Lyme Regis Fossil Festival (April 2016)

Creator of Paleo Doodles ([facebook.com/paleodoodles](https://www.facebook.com/paleodoodles))