

Aurora Solla
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Education

Bachelor of Arts

Reed College, Biology Department, Portland Oregon, anticipating degree May 2019

Grants and Fellowships

Biology Undergraduate Research Proposal (Fall 2018)

Betty C. Liu Summer Research Fellowship (Summer 2018)

Reed College Opportunity Grant (Winter 2018, Winter 2019)

Biology Undergraduate Student Travel Award (Winter 2017, Winter 2018, Winter 2019)

Reed College Science Research Fellowship (Summer 2017)

Research Experience

Biology Department, Reed College, Portland, Oregon

Renn Lab 2017-Present (Primary Research Advisor: Suzy Renn)

- Potential role of transitive inference in *Astatotilapia burtoni* mate choice
- Genital morphology of *Julidochromis transcriptus*, *Julidochromis marlieri*, and *Astatotilapia burtoni*
- Hormone profiles and their relation to social roles in *Julidochromis transcriptus* and *Julidochromis marlieri*

Research Interests

- Paleobiology: comparative morphology and ecology
 - Cambrian stem-arthropods, trilobites, pterosaurs, early whales
- Conservation biology/ecology in marine or littoral systems
- Social behavior and mate choice
- Comparative morphology and endocrinology

Experience

Cichlid Lab Assistant: Renn Lab, Reed College, 2017-2019

- Propagated three species of African Rift Lake cichlids (*A. burtoni*, *J. marlieri*, *J. transcriptus*) for use in behavioral genomics research, maintained water quality and pump system for approximately 100 tanks, trained students in maintenance and use of the fish room, trained students in sacrifice and dissection protocols, ordered and facilitated acquisition of lab animals and supplies, assistance in experimental design across multiple projects, trained and assisted students in use of R and R Markdown, prepare and present status updates for weekly lab meetings, and insured compliance with IACUC lab animal protocols.

Teaching Assistant: Animal Behavior, Reed College, 2017, 2018

- Lab assistance, preparation of lab materials, peer mentoring on research topics and approaches, maintenance of laboratory animals. Duties included: hands-on instruction in wet lab protocols, review of student mock grant applications, and review of student papers and lab notebooks.

Fisheries Technician II: Prince William Sound Aquaculture Corporation, Main Bay Hatchery, Alaska, 2016

- Propagation of sockeye salmon, including care for eggs, fry, and adult fish, fertilization of eggs, and disposal of carcasses, maintenance of hatchery equipment, ensured adherence to sterile protocols within the hatchery, and maintenance of the hatchery grounds.

Instructor: Science Outreach, Reed College, 2015-2016

- Instruction of fourth grade students on hands-on introductory biology and earth science (lab and lecture), preparation of lab materials. Topics included: natural history and conservation biology of Pacific salmonids, as well as introductory geology and hydrology of the Pacific Northwest.

Lab Intern: Oregon Museum of Science and Industry, 2016

- Preparation and maintenance of teaching equipment in the Physics and the Design labs, instruction of the general public in hands-on physics experiments. Duties included: maintenance and creation of outreach demonstrations and machines, assistance in teaching specialized classes in circuit design, management of other interns, and flexible modification of teaching styles and approaches for work with the general public.

Intern: Cayuga Lake Floating Classroom, 2013, 2014

- Performed limnological surveys on a research vessel, including plankton trawls and identification, long-term monitoring of a highly-invasive aquatic plant, instruction of the general public in limnology and natural history of the New York Finger Lakes region,

creation of plankton identification materials for use in teaching and outreach, comparative analysis of plankton presence and abundance over a 100-year period.

Docent: Museum of the Earth at Paleontological Research Institute, 2005, 2006

- Assisted in preparation of fossils for 'discovery' by the general public, assisted in the construction and maintenance of travelling and long-term exhibits, represented the museum at the New York State Fair through interactive demonstrations, performed outreach demonstrations for groups unable to travel to the museum.

References available upon request