**Sara Weinstein**

School of Biological Sciences

University of Utah

Salt Lake City, UT

**Education**

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| Postdoctoral training | *University of Utah,* Department of Biology, Research: Microbial specialization in toxin feeding mammals. Advisor: Denise Dearing |
| Postdoctoral training | *Smithsonian Institution,* National Zoological Park, Research: Host-parasite-poison interactions: Toxin exposure and resistance in a poisonous rat and its parasites. Advisor: Jesús Maldonado |
| Ph.D.  **2017** | *University of California at Santa Barbara,* Department of Ecology, Evolution, and Marine Biology, Dissertation: The Ecology and Transmission of the Raccoon Roundworm, *Baylisascaris procyonis.* Advisors: Armand Kuris and Kevin Lafferty |
| B.A.  **2008** | *University of California at Berkeley,* Department of Integrative Biology, Honors Thesis: An aquatic disease on a terrestrial salamander: individual and population level effects of a pathogenic fungus, *Batrachochytrium dendrobatidis*, on *Batrachoseps attenuatus*. Advisors: David Wake and Craig Moritz |

**Employment**

8/2018-present NIH Postdoctoral Fellow, University of Utah

1/2018-present Postdoctoral Fellow, Smithsonian Institution

7/2017-1/2018 Postdoctoral researcher, University of Utah

2016-2017 Lecturer, University of California, Santa Barbara

2011-2016 Teaching Assistant, University of California, Santa Barbara

6/2010-9/2010 Field Technician, Yosemite National Park, US Park Service

(Amphibian surveys and non-native fish removal)

2009-2010 Field Technician, Utah Division of Wildlife Resources

(Fish and amphibian surveys)

9/2008-12/2008 Intern, USGS Bio Resources Division, Hawai’i National Park

(Mapping insect distributions)

6/2008-9/2008 Field Technician, Museum of Vertebrate Zoology, UC Berkeley

(Small mammal surveys, museum specimen preparation)

2006-2008 Lab Assistant, Integrative Biology (PIs: Cheryl Briggs, Dave Wake), UC Berkeley (field and lab work on amphibian chytrid infection)

**Grants and Honors**

Postdoctoral Research and Mentorship Award, University of Utah (2019)

Ruth L. Kirschstein National Research Service Award NIH T32AI055434 from the National

Institute of Allery and Infectious Diseases (2018- 2020)

Smithsonian Mpala Fellowship Award: “Host-parasite-poison interactions: Toxin

exposure and resistance in a poisonous rat and its parasites.” (2018-2019)

UCSB Graduate Division Dissertation Fellowship Award (2016-2017)

UCSB Department Block Grant Award (2016)

National Science Foundation Doctoral Dissertation Improvement Grant:

“Understanding effects of climate change on parasitism in small mammals” (2016)

Dresden Student Travel Award, American Society of Parasitologists (2012, 2013, 2016)

Doctoral Student Travel Grant, UCSB (2014)

National Science Foundation Graduate Student Research Fellowship (2010-2013)

Susan and Bruce Worster Research Mentorship Award (2011)

Phi Beta Kappa (2008)

Joseph LeConte Award, Department of Integrative Biology, UC Berkeley (2008)

High Distinction in General Scholarship, UC Berkeley (2008)

Highest Honors, Department of Integrative Biology, UC Berkeley (2008)

Regents’ and Chancellor’s Scholar, UC Berkeley (2004-2008)

Summer Undergraduate Research Fellowship, UC Berkeley (2007)

**Publications**

[20] Buck, J.C.,S.B. **Weinstein**, G. Titcomb, and H.S. Young. Conservation implications of

disease control. 2020. Frontiers in Ecology and the Environment. doi:10.1002/fee.2215

[19] MacDonald, A.J., S.B. **Weinstein**, K.E. O’Connor and A. Swei, 2020. Circulation of tick-

borne spirochetes in tick and small mammal communities in Santa Barbara County, California, USA. Journal of Medical Entomology. Https://doi.org/10.1093/jme/tjz253

[18] **Weinstein**, S.B, J. C. Van Wert, M. Kinsella, V. V. Tkach, and K. D. Lafferty (2019)

Infection at an ecotone: Cross-system foraging increases satellite parasites but decreases core parasites in raccoons. Ecology. 100(9): e02808.

[17] **Weinstein**, S.B†, J. C. Van Wert, M. Kinsella, V. V. Tkach, and K. D. Lafferty (2019)

Southern California and range-wide raccoon gastrointestinal helminth database. Ecology. Ecology. 100 (9): e02807.

[16] Steinauer M.L., A.E. Garcia-Vedrenne, S.B. **Weinstein**, A.M. Kuris (2019)

Acanthocephalan parasites of the oarfish, *Regalecus russelii* (Regalecidae), with a description of a new species of *Gymnorhadinorhynchus* (Acanthocephala: Gymnorhadinorhynchidae). Journal of Parasitology. 105 (1): 124-132.

[15] Sapp, S.G.H, Handali, S, **Weinstein**, S.B., Yabsley, M.J. (2018) Detection and evaluation of

antibody response to a *Baylisascaris*-specific antigen in rodent hosts using western blotting and elisa. Journal of Parasitology. doi: 10.1645/18-48.

[14]Buck, J.C., **Weinstein**, S.B., H.S. Young. (2018) Ecological and evolutionary consequences

of parasite avoidance. Trends in Ecology and Evolution. 33(8): 619-632. doi: 10.1016/j.tree. 2018.05.001

[13] **Weinstein**, S.B., J.C. Buck, H.S. Young. (2018) A landscape of disgust. Science: 359

(6381): 1213-1214.

[12] **Weinstein**, S.B., C.W. Moura, J.F. Mendez, K.D. Lafferty. (2018) Fear of feces? Trade-offs

between disease risk and foraging drive animal activity around raccoon latrines. Oikos. doi:10.1111/oik.04866

[11] **Weinstein**, S.B. (2017) Introduced rats and an endemic roundworm: does *Rattus rattus*

contribute to *Baylisascaris procyonis* transmission in California? Journal of Parasitology: 103(6):677-682.

[10] **Weinstein**, S.B., C.M. Lake, H.M. Chastain, D. Fisk, S. Handali, P.L. Kahn, S.

Montgomery, P.P. Wilkins, A.M. Kuris, K.D. Lafferty. (2017) Seroprevalence of *Baylisascaris procyonis* infection among humans, Santa Barbara County, California, USA, 2014–2016. Emerging Infectious Diseases. 23(8): 1397-1399.

[9] **Weinstein**, S.B., G. Titcomb, B. Agwanda, C. Riginos, H. Young. (2017) Predicting parasite

responses to defaunation in the African Savanna. Ecology. 98(7): 1839–1848

[8] **Weinstein**, S.B. (2016) Demography and productivity of *Baylisascaris procyonis* in a

California raccoon population. Journal of Parasitology. 102(6): 622-628

[7] **Weinstein**, S.B. and A.M. Kuris. (2016) Independent origins of parasitism in Animalia.

Biology Letters.12(7):1-5

[6] Sapp, S.G.H, **Weinstein,** S.B., McMahan C.S., and Yabsley, M.J. (2016) Variable infection

dynamics in four *Peromyscus* species following experimental inoculation with *Baylisascaris procyonis*. Journal of Parasitology. 102(5):538-544.

[5] Wilbur, M.Q., **Weinstein,** S.B., Briggs C.J (2016) Detecting and quantifying parasite-

induced host mortality from intensity data: method comparisons and limitations, International Journal for Parasitology. 46(1): 59-66.

[4] **Weinstein**, S.B. and K.D. Lafferty. (2015) How do humans affect wildlife nematodes?

Trends in Parasitology 31(5):222-7.

[3] Poinar, G., **Weinstein**, S.B., Garcia-Vedrenne, A., and Kuris, A.K., (2014) First description

of a nematode, *Spinitectus gabata* n. sp. (Spirurina: Cystidicolidae), from the deep sea oarfish, *Regalecus russelii* (Regalecidae) in Japan. International Journal of Nematology. 24 (2): 117-123.

[2] Kuris, A.M., Jaramillo, A.G., McLaughlin, J.P, **Weinstein**, S.B., Garcia-Vedrenne, A.E.,

Poinar, G.O., Pickering, M., Steinauer, M.L., Espinoza, M., Ashford, J.E., and Dunn, G.L.P. (2014). Monsters of the Sea Serpent: Parasites of an Oarfish, *Regalecus glesne*. Journal of Parasitology. 101(1):41-44.

[1] **Weinstein**, S. 2009. An aquatic disease on a terrestrial salamander: individual and population

level effects of a pathogenic fungus, *Batrachochytrium dendrobatidis*, on *Batrachoseps attenuatus* (Plethodontidae). Copeia 4: 653-660

**Mentoring and Teaching Experience**

Teaching:

Parasitology, Lecturer- EEMB 111 (2016, 2017)

Invertebrate Zoology, Laboratory- EEMB 116 (2016)

Vertebrate Ecology & Evolution, Laboratory- EEMB 113 (2016)

Parasitology, Laboratory- EEMB 111 (2012, 2013, 2014, 2015)

Disease Ecology, Discussion- EEMB 40 (2011)

Mentorship:

Research Mentor (26 undergraduate students) UC Santa Barbara (2010-present)

California Alliance for Minority Participation, UCSB (2015: Antonia Suwonmi)

Undergraduate thesis advisor for 2 UCSB students: Jon Francis Mendez (2014) “Raccoon latrines and human disease risk in Santa Barbara”, Savannah Perez (2016) “A Snapshot of wildlife: Movement patterns at Coal Oil Point Reserve”

Internships in Nanosystems Science, Engineering, and Technology, California

NanoSystems Institute, UC Santa Barbara (2013: Gabriel Ruelas (Ventura CC), 2014: Jacey Van Wert (SBCC))

Worster Award for Graduate and Undergraduate Research Pairing with UCSB undergraduate Megan Burwell. Ecology, Evolution and Marine Biology, UC Santa Barbara (Summer 2011)