

Yuri P. Springer, PhD

Colorado Department of Public Health and Environment
 Disease Control and Environmental Epidemiology Division
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 Denver, CO 80246
 yuri.springer@state.co.us

CURRENT POSITION

Statistical Analyst

Colorado Department of Public Health and Environment, Denver, CO July 2017–Present

- Conducting epidemiologic analyses within the health facility infection surveillance program
- Focal project involves performing social network analyses to characterize patterns of patient sharing among all hospitals and long term care facilities in Colorado

EDUCATION

Doctor of philosophy, ecology and evolutionary biology 1998–2006

University of California Santa Cruz

Dissertation: Epidemiology, resistance structure, and the effects of soil calcium on a serpentine plant-pathogen interaction

Bachelor of arts, biological sciences (concentration in marine biology) 1992–1997

University of California Los Angeles

Thesis: Palatability of the ostracod *Vargula tsujii* to planktivorous fishes: Effects of bioluminescent chemicals

Honors: *Summa cum laude*, *Phi Beta Kappa*, highest honors (department of biology), honors (college of Letters and Sciences), undergraduate research award recipient (department of ecology and evolutionary biology)

WORK EXPERIENCE

Epidemic Intelligence Service (EIS) officer

U.S. Centers for Disease Control and Prevention

Jul 2015–Jun 2017

Placed with Alaska Division of Public Health, Anchorage, AK

Lieutenant

U.S. Public Health Service Commissioned Corps

As part of a two-year fellowship program emphasizing applied field epidemiology training through public health service, led or assisted with numerous and varied public health activities including:

- Multi-agency investigation into an outbreak of illness associated with use of synthetic marijuana in Anchorage that affected over 500 persons
- Investigation and discovery of a novel orthopoxvirus infecting a resident of interior Alaska
- Study of associations between changes in maternal smoking before/during/after pregnancy and measures of child and family health
- Study of health disparities associated with vectorborne diseases in the United States
- Review of occupational injuries in the Alaska logging industry, 1991–2014
- Review of reported cases of foodborne botulism in Alaska, 1950–2016
- Review of reported cases of trichinellosis in Alaska, 1975–2017
- KAP survey on tuberculosis screening/treatment among homeless persons in Anchorage

- KAP survey on health risks of using recreational marijuana
- Surveillance system evaluation of the Alaska Violent Death Reporting System (AKVDRS)
- Five outbreak investigations conducted in rural Alaskan villages
- Authored (lead) 12 reports for health department or peer-review publication; made 12 oral presentations on original work to local partners or at national conferences; gave 10 interviews to local or national media outlets

Staff scientist (disease ecologist)

National Ecological Observatory Network (NEON) Inc., Boulder, CO Oct 2010–Mar 2015

- Designed nationwide surveillance systems for tick-, mosquito-, and rodent-borne pathogens as part of a continental-scale ecological monitoring network
- Technical lead on design and implementation of field sampling, laboratory testing, and museum archive programs
- Developed sampling protocols and associated training materials for field staff, sampling schedules and budgets, and data management and QA/QC plans
- Managed RFPs and the administration of private sector contracts exceeding \$500,000
- Conducted fieldwork to test methods and collect data and samples, managed and analyzed data for program evaluation, publicized the project through oral presentations and publications

Guest researcher

Centers for Disease Control and Prevention, Fort Collins, CO Mar 2011–Apr 2015

- Conducted literature reviews and data analyses in the division of vectorborne diseases
- Lead author of studies on the biogeography of ticks and the use of climate modeling to predict future range expansions within the United States
- Developed collaborations with the USGS and National Center for Atmospheric Research

Intern

Colorado Department of Public Health and Environment, Denver, CO Apr 2014–Apr 2015

- Performed data analyses in the Health Statistics and Evaluation branch as part of a CDC-funded healthy foods initiative to increase retail availability and consumption of fresh fruits and vegetables in Colorado
- Processed health outcome, socioeconomic, and diet/food consumption data from multiple sources including the U.S. census, CDC (e.g., BRFSS, YRBS), and USDA
- Communicated finding to partners/stakeholders through oral presentations and fact sheets

Instructor

EcoHealth Alliance, New York NY Aug 2014

- Invited instructor at EcoHealthNet, a weeklong One Health workshop on zoonotic disease epidemiology for graduate student and postdoctoral researchers
- Gave lectures on concepts in disease ecology, disease surveillance, data analysis (including geospatial mapping), and field sampling methods
- Planned and oversaw field sampling activities and led associated data analysis exercises

Webmaster

Ulan Bator Foundation, Los Angeles, CA Jun 2010–Jan 2012

- Designed and maintained the website for a non-profit international medical aid organization that coordinates the exchange of medical supplies and services between the U.S. and Mongolia

Environmental scientist

Jodi McGraw consulting, Freedom, CA

Oct 2009–Oct 2010

- Collected and analyzed data generated through environmental and faunal surveys
- Wrote habitat management reports and restoration plans
- Coauthored resource management plan for the 34,000-acre Carrizo Plains ecological reserve

Natural resources manager

University of California natural reserve system, Santa Cruz, CA

Jun 2009–Apr 2010

- Authored an invasive plant management plan for the 5,500-acre Landels-Hill Big Creek ecological reserve
- Developed invasive species surveillance system, an associated GIS for population mapping and inventory, and a management strategy to prioritize threats and track control efforts

Postdoctoral fellow

Zoology department, University of Otago, Dunedin, New Zealand

Mar 2008–Jun 2009

- Co-principal investigator on an experimental study of host specificity and virulence of trematode parasites
- Designed sampling plans and experiments, conducted and oversaw laboratory and field data collection, developed and optimized methods of genetic analyses, mentored graduate students, managed budgets and permits, and analyzed and published results

Research associate

California Department of Public Health, Richmond, CA

Jun 2007–Mar 2008

- Performed data management and analysis in the STD control branch
- Used SAS and a GIS to characterize health disparities in STD incidence in California
- Geocoded over 100,000 gonorrhea cases, associated case addresses with census-based data, created maps, and performed spatial analyses

Project manager

Team Up for Youth, Oakland, CA

May 2007–Jul 2007

- Supervised a 10-person field research team interviewing users of public parks in low-income neighborhoods of San Francisco, CA
- Designed KAP surveys, coordinated interviewer training and activity schedules, performed data collection QA/QC, and managed data

Research fellow

Center for Ocean Health, University of California Santa Cruz, Santa Cruz

Jun 2006–Jun 2007

- Authored a literature review focused on the impacts of kelp harvesting on coastal ecosystems
- The review summarized information on species ecology, management and conservation issues, and harvesting laws, and presented recommendations for further research and policy development

Assistant instructor

University of California Santa Cruz, Santa Cruz, CA

Sep 1998–Jun 2006

- Served as an assistant instructor for 15 undergraduate courses in the department of ecology and evolutionary biology and the department of environmental studies:

General principles of biology	Introduction to biogeochemistry
Introduction to cellular/molecular biology	Ecology
Introduction to physiology/developmental biology	Behavioral ecology
Introduction to ecology/evolutionary biology	Marine ecology

Field methods in marine ecology
 Kelp forest ecology
 Marine conservation
 Animal physiology

Evolution
 Plant pathology
 Principles of environmental science

- Developed course materials, gave lectures to and moderated discussions within groups of 20-40 students, performed student evaluations and maintained grading databases, and coordinated field activities

PEER-REVIEWED PUBLICATIONS

Springer, Y. P. and P. T. J. Johnson. Large-scale health disparities associated with tickborne diseases in the United States. *In CDC eClearance, planned submission to American Journal of Public Health*

Springer, Y. P., D. L. Lucas, L. J. Castrodale, and J. B. McLaughlin. Fatal and nonfatal work-related injuries among persons employed in the Alaska logging industry, 1991—2014. *In review at American Journal of Industrial Medicine*

Springer, Y. P., C. H. Hsu, Z. R. Werle, L. E. Olson, M. P. Cooper, L. J. Castrodale, N. Fowler, A. M. McCollum, C. S. Goldsmith, G. L. Emerson, K. Wilkins, J. B. Doty, J. Burgado, J. Gao, N. Patel, M. R. Mauldin, M. G. Reynolds, P. S. Satheshkumar, W. Davidson, Y. Li, and J. B. McLaughlin. 2017. Novel orthopoxvirus infection in an Alaska resident. *Clinical Infectious Diseases* 64:1737-1741

Johnson, P. T. J., C. L. Wood, M. B. Joseph, D. L. Preston, S. E. Haas, and **Y. P. Springer**. 2016. Habitat heterogeneity drives the host-diversity-begets-parasite-diversity relationship: evidence from experimental and field studies. *Ecology Letters* 19:752-761.

Hoekman, D., **Y. P. Springer**, C. M. Barker, R. Barrera, M. S. Blackmore, W. E. Bradshaw, D. H. Foley, H. S. Ginsberg, M. H. Hayden, C. M. Holzapfel, S. A. Juliano, L. D. Kramer, S. L. LaDeau, T. P. Livdahl, C. G. Moore, R. S. Nasci, W. K. Reisen, and H. M. Savage. 2016. Design for mosquito abundance, diversity, and phenology sampling within the National Ecological Observatory Network. *Ecosphere* 7(5):e01320. 01310.01002/ecs01322.01320

Springer, Y. P., D. Hoekman, P. T. J. Johnson, P. A. Duffy, R. A. Hufft, D. T. Barnett, B. F. Allan, B. R. Amman, C. M. Barker, R. Barrera, C. B. Beard, L. Beati, M. Begon, M. S. Blackmore, W. E. Bradshaw, D. Brisson, C. H. Calisher, J. E. Childs, M. A. Diuk-Wasser, R. J. Douglass, R. J. Eisen, D. H. Foley, J. E. Foley, H. D. Gaff, S. L. Gardner, H. S. Ginsberg, G. E. Glass, S. A. Hamer, M. H. Hayden, B. Hjelle, C. M. Holzapfel, S. A. Juliano, L. D. Kramer, A. J. Kuenzi, S. L. LaDeau, T. P. Livdahl, J. N. Mills, C. G. Moore, S. Morand, R. S. Nasci, N. H. Ogden, R. S. Ostfeld, R. R. Parmenter, J. Piesman, W. K. Reisen, H. M. Savage, D. E. Sonenshine, A. Swei, and M. J. Yabsley. 2016. Tick-, mosquito-, and rodent-borne parasite sampling designs for the National Ecological Observatory Network. *Ecosphere* 7(5):e01271. 01210.01002/ecs01272.01271

Schneider, A. C., W. A. Freyman, C. M. Williams, **Y. P. Springer**, and B. G. Baldwin. 2016. Pleistocene radiation of the serpentine-adapted genus *Hesperolinon* and other divergence times in Linaceae (Malpighiales). *American Journal of Botany* 103:221-232

Dahlgren, F. S., C. D. Paddock, **Y. P. Springer**, R. J. Eisen, and C. B. Behravesh. 2016. Expanding range of *Amblyomma americanum* and simultaneous changes in the

epidemiology of Spotted Fever group Rickettsiosis in the United States. *American Journal of Tropical Medicine and Hygiene* 94:35-42

- Springer, Y. P.**, C. S. Jarnevich, D. T. Barnett, A. J. Monaghan, and R. J. Eisen. 2015. Modeling the present and future geographic distribution of the Lone star tick, *Amblyomma americanum* (Ixodida: Ixodidae), in the continental United States. *American Journal of Tropical Medicine and Hygiene* 93:875-890
- Springer, Y. P.**, J. R. Taylor, and P. D. Travers. 2015. Variation in baiting intensity among CO₂-baited traps used to collect hematophagous arthropods. *Journal of Insect Science* 15:92-101
- Springer, Y. P.**, L. Eisen, L. Beati, A. M. James, and R. J. Eisen. 2014. Spatial distribution of counties in the continental United States with records of occurrence of *Amblyomma americanum* (Ixodida: Ixodidae). *Journal of Medical Entomology* 51:342-351
- Kao, R. H., C. M. Gibson, R. E. Gallery, C. L. Meier, D. T. Barnett, K. M. Docherty, K. K. Blevins, P. D. Travers, E. Azuaje, **Y. P. Springer**, K. M. Thibault, V. J. McKenzie, M. Keller, L. F. Alves, E. L. S. Hinckley, J. Parnell, and D. Schimel. 2012. NEON terrestrial field observations: designing continental-scale, standardized sampling. *Ecosphere* 3:Art115
- Koehler, A. V., **Y. P. Springer**, H. S. Randhawa, T. L. F. Leung, D. B. Keeney, and R. Poulin. 2012. Genetic and phenotypic influences on clone-level success and host specialization in a generalist parasite. *Journal of Evolutionary Biology* 25:66-79
- Koehler, A. V., **Y. P. Springer**, D. B. Keeney, and R. Poulin. 2011. Intra- and interclonal phenotypic and genetic variability of the trematode *Maritrema novaezealandensis*. *Biological Journal of the Linnean Society* 103:106-116
- Springer, Y. P.**, C. G. Hays, M. H. Carr, and M. R. Mackey. 2010. Towards ecosystem-based management of marine macroalgae: the Bull Kelp, *Nereocystis luetkeana*. *Oceanography and Marine Biology: An Annual Review* 48:1-42
- Springer, Y. P.**, M. C. Samuel, and G. Bolan. 2010. Socioeconomic gradients in sexually transmitted diseases: a geographic information system-based analysis of poverty, race/ethnicity, and gonorrhea rates in California, 2004-2006. *American Journal of Public Health* 100:1060-1067
- Springer, Y. P.** 2009. Do extreme environments provide a refuge from pathogens? A phylogenetic test using serpentine flax. *American Journal of Botany* 96:2010-2021
- Springer, Y. P.**, A. V. Koehler, and R. Poulin. 2009. Isolation and characterization of 27 polymorphic microsatellite loci for *Maritrema novaezealandensis*, a marine trematode from New Zealand. *Molecular Ecology Resources* 9:1375-1379
- Springer, Y. P.** 2009. Edaphic quality and plant-pathogen interactions: effects of soil calcium on fungal infection of a serpentine flax. *Ecology* 90:1852-1862
- Springer, Y. P.** 2007. Clinal resistance structure and pathogen local adaptation in a serpentine flax-flax rust interaction. *Evolution* 61:1812-1822

Springer, Y. P., B. A. Hardcastle, and G. S. Gilbert. 2007. Soil calcium and plant disease in serpentine ecosystems: a test of the pathogen refuge hypothesis. *Oecologia* 151:10-21

OTHER PUBLICATIONS

Springer, Y. P., and K. Schmidt. Assessment of practices for screening and treating tuberculosis (TB) in persons experiencing homelessness (PEH) in Anchorage, January–February, 2017. *State of Alaska Epidemiology Bulletin*, *In prep*

Springer, Y. P., L. Mixson, L. Castrodale. Cases and outbreaks of foodborne botulism—Alaska, 1950–2016. *State of Alaska Epidemiology Bulletin*, *In prep*

Springer, Y. P. Outbreaks of trichinellosis linked to consumption of walrus meat. *State of Alaska Epidemiology Bulletin*, Number 14, July 10, 2017

Springer, Y. P., S. Casillas, K. Helfrich, D. Mocan, M. Smith, G. Arriaga, L. Mixson, L. Castrodale, and J. McLaughlin. 2017. Two outbreaks of trichinellosis linked to consumption of walrus meat — Alaska, 2016–2017. *Morbidity and Mortality Weekly Report* 66:692-696

Springer, Y. P. The Alaska violent death reporting system—5-year evaluation. A report submitted to the national center for injury prevention and control, U.S. centers for disease control and prevention

Springer, Y. P., R. Gerona, E. Scheunemann, S. L. Shafer, T. Lin, S. D. Banister, M. P. Cooper, L. J. Castrodale, M. Levy, J. C. Butler, and J. B. McLaughlin. 2016. Increase in adverse reactions associated with use of synthetic cannabinoids—Anchorage, Alaska, 2015–2016. *Morbidity and Mortality Weekly Report* 65:1108-1111.

Springer, Y. P., and J. Bressler. 2016. Survey on marijuana use, awareness, and beliefs —Alaska, May 2015. *State of Alaska Epidemiology Bulletin*, Number 3, February 1, 2016

Springer, Y. P., S. L. Shafer and R. R. Gerona. 2015. Increase in hospital emergency department visits related to use of synthetic cannabinoids—Municipality of Anchorage, July to September, 2015. *State of Alaska Epidemiology Bulletin (Recommendations & Reports)*, Vol 12, Number 2, December 2, 2015

Schimmel, D. S., M. Keller, S. Berukoff, R. H. Kao, H. Loescher, H. Powell, T. Kampe, D. Moore, W. Gram, D. T. Barnett, R. Gallery, C. Gibson, K. Goodman, C. L. Meier, S. Parker, L. Pitelka, **Y. P. Springer**, K. Thibault, and R. Utz. 2011. Science strategy—Enabling continental-scale ecological forecasting. National Ecological Observatory Network, Boulder, CO

Springer, Y. P. 2011. NEON (The National Ecological Observatory Network). *One Health Newsletter* 4(4):9-11

Springer, Y. P. and S.T. McStay. 2010. Weed plant management plan for the University of California Santa Cruz Landels-Hill Big Creek ecological reserve. University of California Santa Cruz. Santa Cruz, CA

ORAL PRESENTATIONS

- Springer, Y.P.**, D. L. Lucas, L. J. Castrodale, J. B. McLaughlin. 2017. Nonfatal and fatal injuries in the Alaska logging industry, 1991–2014. Epidemic Intelligence Service (EIS) 2017 annual conference, Atlanta, GA (26Apr17)
- Springer, Y.P.**, 2016. Outbreak of illness associated with spice (synthetic cannabinoid) use—Municipality of Anchorage, Alaska, 2015–2016. Providence Alaska Family Practice Residency Program, Anchorage, AK (19Dec16)
- Springer, Y.P.**, S. L. Shafer, R. Gerona, M. P. Cooper, L. J. Castrodale, T. Lin, J. B. McLaughlin. 2016. Outbreak of illness associated with synthetic cannabinoid (spice) use—Municipality of Anchorage, Alaska, 2015–2016 (panel discussion). Council of State and Territorial Epidemiologists (CSTE) 2016 annual conference, Anchorage, AK (22Jun16)
- Springer, Y.P.**, C. H. Hsu, M. P. Cooper, Y. Li, Z. Werle, L. E. Olson, L. J. Castrodale, K. Wilkins, J. Gao, N. Patel, V. Olson, A. McCollum, J. B. McLaughlin. 2016. Alaska resident infected with a novel orthopoxvirus—Alaska, 2015. Council of State and Territorial Epidemiologists (CSTE) 2016 annual conference, Anchorage, AK (20Jun16)
- Springer, Y.P.**, 2016. Investigation of the spice epidemic in Anchorage. Internal Medicine Grand Rounds series at the Providence Alaska Medical Center, Anchorage, AK (20May16)
- Springer, Y.P.**, 2016. Investigation of the spice epidemic in Anchorage. Internal Medicine Grand Rounds series at the Alaska Native Medical Center, Anchorage, AK (19May16)
- Springer, Y.P.**, C. H. Hsu, M. P. Cooper, Y. Li, Z. Werle, L. E. Olson, L. J. Castrodale, K. Wilkins, J. Gao, N. Patel, V. Olson, A. McCollum, J. B. McLaughlin. 2016. Alaska resident infected with a novel species of orthopoxvirus—Alaska, 2015. Epidemic Intelligence Service (EIS) 2016 annual conference, Atlanta, GA (4May16)
- Springer, Y.P.**, 2016. Characterizing the spice epidemic in Anchorage. Alaska Native Tribal Health Consortium LiverConnect, Anchorage, AK (9Feb16)
- Springer, Y.P.**, 2016. Increase in hospital emergency department visits related to use of synthetic cannabinoids—Municipality of Anchorage, July to September, 2015. Anchorage Police Department Alaska Synthetic Cannabinoids (SC) summit, Anchorage, AK (28Jan16)
- Springer, Y.P.**, 2015. Increase in hospital emergency department visits related to use of synthetic cannabinoids—Municipality of Anchorage, July to September 2015. Providence Alaska Family Practice Residency Program, Anchorage, AK (30Dec15)
- Springer, Y.P.**, 2015. Increase in hospital emergency department visits related to use of synthetic cannabinoids—Municipality of Anchorage, July to September, 2015. Alaska State Hospital and Nursing Home Association, Anchorage, AK (29Dec15)
- Springer, Y.P.**, 2015. Evaluation of the Alaska violent death reporting system (AKVDRS). Epidemic Intelligence Service (EIS) 2015 Fall course, Atlanta, GA (7Dec15)
- Schneider, A. C., W. A. Freyman, C. M. Guilliams, **Y. P. Springer**, and B.G. Baldwin. 2015. Divergence times, phylogeny, and neoendemism in *Hesperolinon* (Linaceae). Botanical Society of America (BSA) 2015 annual meeting, Edmonton, Alberta (28Jul15)

- Johnson, P.T.J, M. B. Joseph, C. L. Wood, S. E. Haas, and **Y.P. Springer**. 2015. What drives parasite diversity? Insights from community ecology. Ecology and Evolution of Infectious Diseases (EEID) 2015 conference, Athens, GA (28May15)
- Schneider, A. C., W. A. Freyman, C. M. Williams, **Y. P. Springer**, and B.G. Baldwin. 2015. Divergence times, phylogeny, and neoendemism in *Hesperolinon* (Linaceae). California Botanical Society (CBS) 2015 meeting, Claremont, CA (11Apr15)
- Springer, Y. P.** 2014. Ecological and evolutionary insights at the human/wildlife disease interface. EcoHealth Alliance EcoHealthNet training workshop, Smithsonian Conservation Biology Institute, Front Royal, VA (21Aug14)
- Springer, Y. P.** 2014. The National Ecological Observatory Network: Overview and introduction to pathogen sampling. EcoHealth Alliance EcoHealthNet training workshop, Smithsonian Conservation Biology Institute, Front Royal, VA (21Aug14)
- Springer, Y. P.** and D. Hoekman. 2014. From big picture to bugs: Insect and pathogen sampling within the National Ecological Observatory Network. University of Alaska Toolik field station, AK (25Jun14)
- Calanan, R.M., A. Wagner, **Y. P. Springer**, E. Aakko, and S. Motika. 2014. Data-driven public health planning to increase access to healthier food retail in Colorado. Council of State and Territorial Epidemiologists (CSTE) 2014 annual conference, Nashville, TN (23Jun14)
- Springer, Y. P.** 2014. Disease dynamics through an ecological lens: Insights into host/parasite dynamics in natural and human systems. University of Colorado Denver School of public health, Denver, CO (2Apr14)
- Springer, Y. P.** and D. Hoekman. 2013. The National Ecological Observatory Network: Overview and introduction to insect and pathogen sampling. Smithsonian Conservation Biology Institute, Front Royal, VA (24May13)
- Springer, Y. P.** 2011. NEON's infectious disease monitoring program. National Ecological Observatory Network, Boulder, CO (17Jun11)
- Springer, Y. P.** 2011. The National Ecological Observatory Network: Introduction and overview of infectious disease monitoring. United States Department of Agriculture, Animal and Plant Health Inspection Services, Fort Collins, CO (17May11)
- Springer, Y. P.** 2011. The National Ecological Observatory Network: Introduction and overview of infectious disease monitoring. Colorado Department of public health zoonotic diseases 36th annual conference, Aurora, CO (5May11)
- Springer, Y. P.** 2009. Sick plants: Serpentine flax reveals insights into species interactions. University of Otago Zoology department, Otago, New Zealand (23Apr09)
- Samuel, M. C., **Y. P. Springer**, D. Gilson, and G. Bolan. 2008. Poverty gradients and racial/ethnic analysis of gonorrhea in California. 2008 National STD prevention conference, Chicago, IL (11Mar08)

- Springer, Y. P.** 2009. Poverty gradients and racial/ethnic analysis of Gonorrhea in California. California Department of Public Health sexually transmitted disease controllers meeting, Berkeley, CA (13Feb08)
- Springer, Y. P.** 2006. Soil calcium, epidemiology, and resistance structure in California dwarf flax. Wantrup wildlife refuge research symposium, Napa, CA (20May06)
- Springer, Y. P.** 2006. Sick plants: Why? University of California Santa Cruz Department of ecology and evolutionary biology, Santa Cruz, CA (5Jan06)
- Springer, Y. P.** 2005. Exploring resistance structure in wild flax. University of California Santa Cruz botanical research symposium, Santa Cruz, CA (12Feb05)
- Springer, Y. P.** 2004. Spatial and phylogenetic mosaics of antagonistic coevolution: A study of resistance structure variation in wild flax. University of California Natural reserves research symposium, Bodega, CA (25Aug04)

POSTERS PRESENTATIONS

- Schneider, A. C., C. M. Guilliams, W. A. Freyman, **Y. P. Springer**, and B. G. Baldwin. 2014. Phylogenetic relationships in *Hesperolinon* (Linaceae) inferred from ITS, ETS, and chloroplast sequence data. Botanical Society of America annual meeting, Boise, ID (28Jul14)
- Schneider, A. C., C. M. Guilliams, W. A. Freyman, **Y. P. Springer**, and B. G. Baldwin. 2014. Species relationships in *Hesperolinon* (Linaceae) inferred from ITS and chloroplast sequence data. Northern California botanists 2014 symposium, Chico, CA (14Jan14)
- Hoekman, D., **Y. P. Springer**, and K. Blevins. 2013. Abundance and diversity of ground beetles and mosquitoes at three southeastern US sites: NEON data in Action. Entomological society of America 61st annual meeting, Austin, TX (13Nov13)
- Schneider, D. C., D. T. Barnett, S. Elmendorf, E. L. S. Hinckley, D. Hoekman, K. Jones, C. Meier, J. Parnell, **Y. P. Springer**, K. M. Thibault, and A. Thorpe. 2013. From sentinels to avatars? Scaling from ecological data to ecosystem change. Ecological society of America 98th annual meeting, Minneapolis, MN (6Aug13)
- Springer, Y. P.** 2012. Sampling infectious diseases as part of the National Ecological Observatory Network. Cary institute of ecosystem studies, special conference on species interactions, Millbrook, NY (14Nov12)
- Springer, Y. P.** and R.H. Kao. 2012. Sampling infectious diseases as part of the National Ecological Observatory Network. Ecological society of America 97th annual meeting, Portland, OR (7Aug12)
- Kao, R. H., C. M. Gibson, R. Gallery, C. L. Meier, D. T. Barnett, K. M. Docherty, **Y. P. Springer**, E. Azuaje, K. K. Blevins, and P.D. Travers. 2011. NEON terrestrial field sampling: Designing large-scale, standardized sampling. Ecological society of America 96th annual meeting, Austin, TX (8Aug11)

FUNDING AND AWARDS

Research grant funding recipient

University of California Santa Cruz

1998–2006

- Wrote grant proposals and received over \$85,000 in research and tuition support from 17 competitive funding applications

VOLUNTEER EXPERIENCE

Board member and shift mechanic

Off the Chain bicycle collective, Anchorage, AK

Aug 2015–Jul 2017

- Volunteer mechanic at a nonprofit bicycle advocacy organization
- Built bicycles for sale to low-income community members in Anchorage
- Provide training in bicycle mechanics and repair to patrons during weekly clinics
- Participated in consensus-based collective management and bylaw development

Crew chief

Forestry team, Boulder county parks and open space, Longmont, CO

Apr 2011–Apr 2015

- Volunteer activity supervisor and organizer for the forestry team
- Supervised groups of up to a dozen volunteers using hand tools to perform tasks in wilderness settings
- Led projects to maintain and enhance community-use open space including trail maintenance, habitat restoration, infrastructure repair, fuel reduction and preparation for controlled burns

Doctoral thesis committee member

Colorado University Boulder, Boulder, CO

Sep 2012–Dec 2014

- Provided guidance on research plans and interpretation of results, reviewed drafts of multiple manuscripts and grant applications, and offered advice on various aspects of professional development

Undergraduate science writing mentor

UNAVCO, Boulder, CO

Jun–Aug 2011, 2013, 2014

- Provided guidance on various aspects of scientific research and communication including concept synthesis and hypothesis generation, study design, statistical analyses, manuscript and poster preparation, and oral presentations

Undergraduate research mentor

Colorado University Boulder, Boulder, CO

Sept 2012–May 2013

- Provided guidance on various aspects of scientific research and communication including concept synthesis and hypothesis generation, study design, statistical analyses, manuscript preparation, and oral presentations

High school research mentor

Fairview high school, Boulder, CO

Jul 2011–Jun 2012

- Provided guidance on various aspects of scientific research and communication including concept synthesis and hypothesis generation, study design, statistical analyses, and manuscript and poster preparation

Ally

Boulder county circles out of poverty program, Boulder, CO Jun 2011–Mar 2012

- Volunteer “ally” in a poverty alleviation program designed to assist low-income community members by fostering social and professional support networks

Lifeguard

Boulder aquatic masters swim program, Boulder, CO May 2011–Aug 2011

- Volunteer lifeguard for an open-water swim program at the local reservoir
- Ensured safety for groups of up to 40 swimmers over a 1km course

Mechanic

Santa Cruz Hub for Sustainable Transportation, Santa Cruz, CA Jun 2002–Jul 2006

- Volunteer mechanic at a nonprofit bicycle advocacy organization
- Built bicycles for sale to low-income community members in Anchorage
- Provide training in bicycle mechanics and repair to patrons during weekly clinics
- Participated in consensus-based collective management and bylaw development

Undergraduate research mentor

University of California Santa Cruz, Santa Cruz, CA Sep 2003–Jul 2004

- Provided guidance on various aspects of scientific research and communication including concept synthesis and hypothesis generation, study design, statistical analyses, and manuscript preparation

Graduate student representative

University of California Santa Cruz, Santa Cruz, CA Sep 2002–Jun 2004

- Represented graduate students in the Department of ecology and evolutionary biology at meetings of department faculty and the university-wide graduate student association