**BIO-BIBLIOGRAPHY UPDATES**

(Revised 5/16)

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**BIO-BIBLIOGRAPHY University of California, Santa Barbara**

**Thomas C. Smith 11 December 2020**

**Assistant Researcher II**

**Last update filed on: 12/01/18**

**This update refers to the period: 12/01/18 - 10/31/20**

Curriculum Vitae

**Education**

UC Santa Barbara, Department of Ecology, Evolution, and Marine Biology (EEMB). Ph.D. 2015

UC Santa Barbara, EEMB. M.A. 2013

University of Vermont, Environmental Sciences. B.S. 2002

**Area of Specialization**

Community ecology, aquatic ecology, conservation biology, herpetology, disease ecology.

**Previous and Currently Held Academic or Professional Appointments**

Assistant Researcher II. UCSB Earth Research Institute (ERI). 2018 – present

Affiliated Researcher. UC Berkeley Dept. of Integrated Biology (Sponsor: Mary Power). 2017 – 2019

Postdoctoral Researcher. UCSB Marine Science Institute (MSI). 2016 – 2018

**Professional Organizations**

Ecological Society of America.

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**PART I. RESEARCH**

**Cumulative List of Publications (or Creative Activities)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Year** | **Title and Authors** | **Publisher** | **Category** |
| A-1 | 2005 | Woodworth, B.L., C.T. Atkinson, D.A. LaPointe, P.J. Hart, C.S. Spiegel, E.J. Tweed, C. Henneman, J. LeBrun, T. Denette, R. DeMots, K.L. Kozar, D. Triglia, D. Lease, A. Gregor, **T. Smith,** and D. Duffy. Host population persistence in the face of introduced vector-borne diseases: Hawaii amakihi and avian malaria. <https://www.pnas.org/content/pnas/102/5/1531.full.pdf> | Proceeding of the National Academy of Sciences | Peer-  reviewed  journal  article |
| A-2 | 2006 | Schall, J.J., **T.C. Smith**. Detection of a Malaria Parasite (Plasmodium mexicanum) in ectoparasites  (Mites and Ticks), and Possible Significance for Transmission. <https://doi.org/10.1645/GE-688R.1> | Journal of Parasitology | Peer-  reviewed  journal  article |
| A-3 | 2011 | Knapp, R.A., C.J. Briggs, **T.C. Smith**, and J.R. Maurer.  Nowhere to hide: impact of a temperature  sensitive amphibian pathogen along an elevation gradient in the temperate zone. <https://esajournals.onlinelibrary.wiley.com/doi/pdf/10.1890/ES11-00028.1> | Ecosphere | Peer-  reviewed  journal  article |
| A-4 | 2013 | Mordecai, E.A., K.P. Paaijmans, L.R. Johnson, C.H. Balzer, T. Ben-Horin, E. de Moor, A. McNally, S. Pawar, S.J. Ryan, **T.C. Smith**, K.D. Lafferty.  Optimal temperature for malaria transmission is dramatically lower than previously predicted. <https://onlinelibrary.wiley.com/doi/pdf/10.1111/ele.12015> | Ecology Letters | Peer-  reviewed  journal  article |
| A-5 | 2013 | **Smith, T.C.** Pseudostaurosira pseudoconstruens.  <https://diatoms.org/species/pseudostaurosira_pseudoconstruens> | Diatoms of North America | Peer-  reviewed taxon contribution |
| A-6 | 2015 | Smith, T.C. Ecological impacts of mountain yellow-legged frog (*Rana muscosa* and *Rana sierrae*) declines on Sierra Nevada lake communities.  <http://dx.doi.org/DOI:10.13140/RG.2.1.1734.0246> | University of California, Santa Barbara | Dissertation |
| A-7 | 2016 | **Smith, T.C.**, R.A. Knapp, C.J. Briggs. Declines and extinctions of mountain yellow-legged frogs have small effects on benthic macroinvertebrate communities. <https://esajournals.onlinelibrary.wiley.com/doi/full/10.1002/ecs2.1327> | Ecosphere | Peer-  reviewed  journal  article |
| A-8 | 2017 | **Smith, T.C.**, A.M. Picco, R.A. Knapp. Ranaviruses infect mountain yellow-legged frogs (*Rana muscosa* and *Rana sierrae*) threatened by Batrachochytrium dendrobatidis. <http://www.herpconbio.org/Volume_12/Issue_1/Smith_etal_2017.pdf> | Herpetological Conservation and Biology | Peer-  reviewed  journal  article |
| *Preceding publications were listed in prior review (before 12/01/18)* | | | | |
|  |  |  |  |  |

(Please draw line after items listed for prior review; indicate items previously listed as Work In Press, Work

Submitted, or as Work In Progress.)

(Indicate priority of authorship when possible on jointly authored work.)

**Work In Press**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Year** | **Title and Authors** | **Publisher** | **Category** |
| B-1  etc. |  |  |  |  |

**Work Submitted**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Yr**  **Subm.** | **Title and Authors** | **Publisher** | **Category** |
| C-1 | 2020 | Knapp, R.A. C. Pavelka, **T.C. Smith,** and E.E. Hegeman. The Sierra Lakes Inventory Project: Non-native fish and community composition of lakes and ponds in the Sierra Nevada, California ver 2.  https://portal-s.edirepository.org/nis/mapbrowse?scope=edi&identifier=112&revision=2 | Environmental Data Initiative | Dataset |

**Work In Progress** (optional)

|  |  |  |
| --- | --- | --- |
| **Title and Authors** | **Potential Publisher** | **Category** |
| **Smith, T.C.**, C. Pavelka, E. Hegeman, and R.A. Knapp. Large scale synoptic surveys describe alpine lake communities with emphasis on amphibians, invertebrates, and non-native fish.  https://github.com/TomCSmith/tom-smith-CV-and-review/blob/main/SLIP-data-paper-Ecology.pdf | Ecology | Peer-reviewed data paper |
| **Smith, T.C.**, and C.J. Briggs. Endangered amphibian larvae in high mountain lakes have weak and variable top-down impact on algal resources and invertebrate competitors.  https://github.com/TomCSmith/tom-smith-CV-and-review/blob/main/tadpoles-algae-interactions-5Dec2020.docx | Freshwater Science | Peer-  reviewed  journal  article |

\*Previously listed as Work In Press

\*\*Previously listed as Work Submitted

\*\*\* Previously listed as Work In Progress

PART II. TEACHING

(Annual Teaching List, available from Budget and Planning, may be substituted for the bio-bib list of catalog courses)

Catalog Courses

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Qtr** | **Course no., Title** | **Class**  **Type** | **Units** | **Hrs/**  **wk** | **Enroll-ment** | **Eval. Avail.** |
|  |  |  |  |  |  |  |

**Undergraduate Projects Directed**

|  |  |  |  |
| --- | --- | --- | --- |
| **Student** | **Project** | **Chair/ Member** | **Year Project Completed** |
|  |  |  |  |

**Graduate Degree Committees**/**MA Committees**

|  |  |  |  |
| --- | --- | --- | --- |
| **Student** | **Yr Deg. Compl.** | **Chair/ Member** | **Optional Info (e.g., Current**  **Employment)** |
|  |  |  |  |

**PhD Committees**

|  |  |  |  |
| --- | --- | --- | --- |
| **Student** | **Yr Deg.**  **Compl.** | **Chair/**  **Member** | **Optional Info (e.g., Current**  **Employment)** |
|  |  |  |  |

**Postdoctoral Scholars Supervised**

**Year Name**

**Other Teaching Contributions** (course improvements, new courses, honors seminars, etc.)

2020. Mentor and site host, Environmental Data Initiative Summer Data Science Fellowship. Fellow: Claire Pavelka. Project: “The Sierra Lakes Inventory Project: non-native fish and community composition of >8,000 lakes and ponds in the Sierra Nevada, California.”

**PART III. PROFESSIONAL ACTIVITIES**

**Lectures Presented**

|  |  |  |
| --- | --- | --- |
| **Month/Yr** | **Title** | **Meeting/place** |
| June 2015 | The impacts of mountain yellow-legged frog declines on algae and insect communities in Sierra Nevada lakes. | Summer Lecture Series, Sierra Nevada Aquatic Research Laboratory, Mammoth Lakes, CA. https://vimeo.com/130562633 |
| October 2017 | Starving snakes and flying frogs: studying gartersnakes to support frog conservation in Yosemite National Park | University of California Berkeley Conservation, Wildlife, and Fisheries Biology seminar, Berkeley, CA |
| The preceding lectures were listed in prior review (before 12/01/18) | | |
| May 2020 | The mountain yellow-legged frogs of the Sierra Nevada: Natural history, threats, and recovery. | Sierra Nevada Alliance Monthly Webinar, South Lake Tahoe, CA. <https://drive.google.com/file/d/133uJoN-D6YCXxA0acD0KJx4D83Shbbf3/view> |
| November 2020 | Think Globally, Act Locally: how a pandemic challenges conservation of a California frog, and how scientists and managers can respond. | UCSB Natural Reserve System Seminar Series, Santa Barbara, CA. [https://www.youtube.com/watch?v=16XknynQ7nk](https://www.youtube.com/watch?v=16XknynQ7nk%20%20) |
|  |  |  |

**Grants and Contracts**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Years** | **Source** | **Title** | **Amt.** | **PI** | **New/Cont\*** |
| **Existing grant, added as co-investigator.** | | | | | |
| 2018-2023 | USDI National Park Service | Restoring Genetic Diversity of Endangered Mountain Yellow-legged Frogs in Extirpated Watersheds | $96,601 | R.A. Knapp | New |
| **New grants as PI or co-PI** | | | | | |
| 2019-2020 | U.S. Fish & Wildlife Service | Chytrid Rapid Response Kits | $9,310 | T.C. Smith, R.A. Knapp | New |
| 2019-2021 | U.S. Fish & Wildlife Service | Chytrid Testing and Treatment | $49,500 | T.C. Smith, R.A. Knapp | New |
| 2020-2023 | U.S. Fish & Wildlife Service | Mountain yellow-legged frog translocations in Yosemite National Park | $49,504 | R.A. Knapp, and T.C. Smith | New |
| 2020-2022 | California Department of Fish & Wildlife | Recovery of mountain yellow-legged frogs in the southern Sierra Nevada | $159,666 | R.A. Knapp and T.C. Smith | New |
| 2020-2025 | Sequoia Parks Conservancy | Mountain yellow-legged frog Restoration Project | $43,240 | R.A. Knapp, and T.C. Smith | New |
| 2020-2025 | USDI National Park Service (Yosemite National Park) | Increase Resilience of Endangered Sierra Nevada Yellow-legged Frogs. | $99,967 | T.C. Smith, and R.A. Knapp | New |
| 2020-2023 | United States Fish & Wildlife Service | Frog conservation using targeted gene flow: Translocation of disease-resistant Sierra Nevada yellow-legged frogs (Rana sierrae) into the last Bd-naive population in Yosemite National Park. | $99,830 | Smith, T.C. | New |
| 2021-2023 | California Department of Fish & Wildlife | Reintroduction of Sierra Nevada yellow-legged frogs (Rana sierrae) to restore an isolated metapopulation in the central Sierra Nevada. | $166,760 | Smith, T.C., and Knapp, R.A. | New |

***\*****If continuing, provide detail of any changes (i.e. increased funding, etc.) in the departmental letter*

**Awards and Honors**

**Reviewing and Refereeing Activity**

|  |  |
| --- | --- |
| **Date** | **Activity and for Whom** |
| 10/2015 | Manuscript peer review for *Hydrobiologia* |
| 5/2016 | Proposal peer review for *Agence Nationale de la Recherche (France)* |
| 9/2016 | Proposal peer review for *National Science Foundation Division of Environmental Biology* |
| 2/2017 | Manuscript peer review for *Copeia* |
| 4/2017 | Manuscript peer review for *Freshwater Science* |
| 5/2017 | Manuscript peer review for *Hydrobiologia* |
| 11/2017 | Manuscript peer review for *Water Resources Research* |
| 10/2018 | Manuscript peer review for *Freshwater Science* |
| 10/2019 | Manuscript peer review for *Freshwater Science* |

**Special Appointments** (e.g., Editorships, Officer of Prof. Organization)

|  |  |  |
| --- | --- | --- |
| **Years** | **Position** | **Type of Service** |
|  |  |  |

**Other Professional Contributions** (e.g., Consulting or other application of your professional expertise)

|  |  |  |
| --- | --- | --- |
| 2018-present | Coordinator | Coordinate and facilitate annual meetings, communications, and projects for Sierra Nevada Aquatic Research Consortium (SNARC). SNARC is an informal group of 30+ researchers, faculty, postdocs, students, and professionals. SNARC enhances research and management collaboration among entities studying and solving environmental challenges in Sierra Nevada aquatic ecosystems. |
| 2018-present | Contributor | Mountain yellow-legged frog Interagency Conservation Strategy group. Provide technical expertise and data to wildlife managers, participate in multi-agency meetings during which frog restoration challenges and opportunities are discussed, collaborate with wildlife managers to design and implement frog restoration projects. |

**PART IV. SERVICE**

**University Service** (Including administrative posts held)

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| --- | --- | --- |
| **Years** | **Position** | **Type of Service** |
|  |  |  |

**Public Service** (including service to K-12 Education)

|  |  |  |
| --- | --- | --- |
| **Years** | **Position** | **Type of Service** |
|  |  |  |