**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**

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

UC Santa Barbara, Department of Ecology, Evolution, and Marine Biology. M.A. 2013

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

**Area of Specialization**

Community ecology, aquatic ecology, conservation biology.

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

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

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

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

**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 | Sierra Nevada Aquatic Research Consortium (SNARC). Coordinate and facilitate annual meetings, communications, and projects. 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** |
|  |  |  |