

CHERYL FRANK SULLIVAN
Research Assistant Professor | Entomologist

Affiliation

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Education

University of Vermont, Burlington, VT

Ph.D. 2021 College of Agriculture & Life Sciences - Entomology
M.S. 2012 College of Agriculture & Life Sciences - Biological Control/Integrated Pest Management
B.S. (with honors) 2003 School of Natural Resources - Environmental Science/Conservation Biology

Professional Experience, Boards & Committees

2022 – Present	Research Assistant Professor - Univ. of VT, College of Agriculture & Life Sciences, Department of Agriculture, Landscape & Environment, Entomology Research Laboratory
2005 – 2022	Research Technician - Univ. of VT, College of Agriculture & Life Sciences, Department of Plant & Soil Science, Entomology Research Laboratory
2014 – 2020	Board Member, Representative Chittenden County, VT Fish & Wildlife Dept.
2017 – 2019	Board of Directors Member, Outdoors Woman, Inc.
2017 – 2019	Advisory Board Member, The Center for Technology, Essex
2003	Environmental Analyst, VT Department of Environmental Conservation, Water Quality Division, Stormwater Section, Waterbury, VT, USA
2003	Watershed Educator, Watershed Alliance, Burlington, VT, USA
2002-2003	Research Assistant, Gund Institute for Ecological Economics, School of Natural Resources, University of Vermont, Burlington, VT, USA
2001-2003	Lab and Field Technician, Vermont Monitoring Cooperative and School of Natural Resources, University of Vermont, Burlington, VT, USA
2001	Lab and Field Assistant - Rubenstein Ecosystem Science Laboratory, School of Natural Resources, University of Vermont, Burlington, VT, USA

Publications (*Refereed Journals; past 5 years*)

Hajek AE, AP Gryganskyi, SY Gouli, TD Bittner, **CF Sullivan**, BL Parker. 2024. Reassessing Diversity of the Arthropod-Pathogenic Genus *Pandora* Batko (Entomophthoromycotina; Erynioideae). *Diversity*. 16(10), 603; [DOI:10.3390/d16100603](https://doi.org/10.3390/d16100603)

Davari, A, CF Sullivan, MS Rea, M Skinner, BL Parker. Ultraviolet-C Exposure on Western Flower Thrips, *Frankliniella occidentalis*, and ornamental plants. 2024. *Plants. Int. J. Plant Biol.* 15(2), 468-481; [DOI:10.3390/ijpb15020036](https://doi.org/10.3390/ijpb15020036)

Sirén, A.P.K., Berube, J., **C.F. Sullivan**, L. Clarfeld, B. Simpson, T. L. Wilson. 2024. Accounting for missing ticks: Use (or lack thereof) of hierarchical models in tick ecology studies. *Ticks Tick Borne Dis.* 15(4): 102342 [DOI:10.1016/j.ttbdis.2024.102342](https://doi.org/10.1016/j.ttbdis.2024.102342)

Tobi D, M. Skinner, A. Ghalehgalabbahani, N.C. Rosberg, C.F. **Sullivan**, P. Reese, B.L Parker. 2024. Greenhouse Heating Efficiency Through Soap Bubble Insulation" *Int. J. Environ. Technol. Manag.* 27(3):242-254. DOI: [10.1504/IJETM.2024.10061761](https://doi.org/10.1504/IJETM.2024.10061761)

Sullivan, C.F., Davari, A., Parker, B.L., Skinner, M. 2023. A Guardian Plant System for Management of *Frankliniella occidentalis* (Thysanoptera: Thripidae) in Greenhouse Ornamentals. *Pest Manag Sci* [DOI:10.1002/ps.7556](https://doi.org/10.1002/ps.7556)

Occi, J.L., D.C. Price, M. Hall, V. Campbell, S. Stronsick, **C.F. Sullivan**, R. Persepane, J.G. Gonzalez; A. Toledo, D.M. Fonseca. 2023. *Rickettsia* and relapsing fever *Borrelia* in *Alectorobius kelleyi* (Ixodida: Argasidae) from peri domestic bats in the northeastern United States. Ticks & Tick-Borne Diseases. DOI: [10.1016/j.ttbdis.2023.102157](https://doi.org/10.1016/j.ttbdis.2023.102157)

Sullivan, C.F., Parker, B.L., Skinner, M. 2022. Survival of off-host *Dermacentor albipictus* (Acari: Ixodidae) adult females and larvae underwater. Canadian Journal of Zoology. DOI: 10.1139/cjz-2022-0003

Sullivan, C.F., Ghalehgalabbahani, A., Parker, B.L., and Skinner, M. 2022. Mortality of various-age larval winter ticks, *Dermacentor albipictus*, following surface contact with commercial mycoacaricides. Experimental Parasitology. 108292. DOI: [10.1016/j.exppara.2022.108292](https://doi.org/10.1016/j.exppara.2022.108292)

Ghalehgalabbahani, A., **C.F. Sullivan**, B. Davari, B.L. Parker, A. Razavi & M. Skinner. 2022. Biological control of *Rhizoglyphus robini* using the entomopathogenic fungus, *Metarhizium brunneum* and predatory mite, *Stratiolaelaps scimitus* under laboratory conditions. Experimental and Applied Acarology. 87(1):19-29. DOI: [10.1007/s10493-022-00719-6](https://doi.org/10.1007/s10493-022-00719-6)

Sullivan, C.F., Parker, B.L., Skinner, M. 2022. A review of commercial *Beauveria*- and *Metarhizium*-based biopesticides for the biological control of ticks in the USA. Insects – Special Issue – Ecology of Ticks and Their Control. 13(3), 260; DOI: [10.3390/insects13030260](https://doi.org/10.3390/insects13030260)

Sullivan, C.F., Occi, J., Brennan, J., Robbins, R., Skinner, M., Bennett, A., Parker, B.L., Fonseca, D. 2022. First report of the bat tick *Carios kelleyi* (Acari: Ixodida: Argasidae) from Vermont, USA. Journal of Medical Entomology. DOI: [tjab232](https://doi.org/10.1093/jmedent/13.3.260)

Sullivan, C.F., Parker, B.L., Kim, J.S., and Skinner, M. 2021. Effectiveness of granular formulations of *Metarhizium anisopliae* and *Metarhizium brunneum* (Hypocreales: Clavicipitaceae) on off-host larvae of *Dermacentor albipictus* (Acari: Ixodidae). Biocontrol Sci Tech. 31:11, 1113-1127 DOI: [10.1080/09583157.2021.1926428](https://doi.org/10.1080/09583157.2021.1926428)

Davari, A., Parker, B., **Sullivan, C.**, Ghalehgalabbahani, A., & Skinner, M. 2021. Biological control of Western flower thrips, *Frankliniella occidentalis* using a self-sustaining granular fungal treatment. *Bulletin of Entomological Research*, 1-6. DOI: [10.1017/S0007485321000365](https://doi.org/10.1017/S0007485321000365)

Sullivan, C.F. 2021. *Metarhizium anisopliae*, *Metarhizium brunneum* and *Beauveria bassiana* formulations for biological control of larval winter ticks, *Dermacentor albipictus*. University of Vermont, PhD Dissertation. <https://scholarworks.uvm.edu/graddis/1457/>

Sullivan, C.F., Parker, B.L., Davari, A., Lee, M.R., Kim, J.S., and Skinner, M. 2020. Evaluation of spray applications of *Metarhizium anisopliae*, *Metarhizium brunneum* and *Beauveria bassiana* against larval winter ticks, *Dermacentor albipictus*. Exp Appl Acarol, 82:559–570. DOI: [10.1007/s10493-020-00547-6](https://doi.org/10.1007/s10493-020-00547-6)

Sullivan, C.F., Parker, B.L., Davari, A., Lee, M.R., Kim, J.S., and Skinner, M. 2020. Pathogenicity of *Metarhizium anisopliae* and *Metarhizium brunneum* isolates and efficacy of Met52 G against winter tick larvae, 2019. Arthropod Manag Tests, 45:1-3. DOI: [10.1093/amt/tsaa100](https://doi.org/10.1093/amt/tsaa100)

Skinner, M., **C.F. Sullivan**, B.L. Parker. 2019. [Chapter 15. Integrated Pest Management in Greenhouse and Other Protected Environments](#). In: Integrated management of insect pests: Current and Future Developments Eds: M. Kogan & E.A. Heinrichs, Burleigh Dodds Science Publ. Cambridge, UK.

Presentations (Past 2 years)

Sullivan C.F. 2024. [Avoiding Aphid Outbreaks on High Tunnel Tomatoes](#). [New England Vegetable & Fruit Conference](#). Manchester, NH. December 18, 2024.

Sullivan C.F. 2024. Not So Sweet Ticks Are Lurking in Vermont's Sugarbushes. [Vermont Maple Winter Conference](#). Vermont Maple Sugar Makers Association & UVM Extension. December 10 - 14, 2024.

Food & Ideas Gathering (FIG): Food procurement: hunting, fishing, gardening, foraging - A panel discussion and conversation facilitated by Vermont Department of Fish and Wildlife followed by a Wild Game Dinner. UVM Food Systems Research Center (FSRC) Seminar Series. Dec. 6, 2024. Leahy Building, UVM.

Sullivan C. 2024. Impacts of Climate Change on Ticks & Tick-borne Diseases. Cell to Society: Health Consequences of Climate Change. Constance Van Eeghen - Center for Clinical and Translational Science, University of Vermont College of Medicine. Oct. 10, 2024, Burlington, VT.

Sullivan C. Production and pest management and other topics related to diversified vegetable production with Christa Alexander at Jericho Settlers Farm. Session for the Sustainable Agriculture Fellows Tour organized by Beth Holtzman, UVM Extension, Sept. 19, 2024, Jericho, VT.

Sullivan C. 2024. Bat ticks in Vermont. Disease and Wildlife Ecology Symposium. July 16, 2024; Vermont State University, Johnson, VT.

Sullivan C., M Skinner, V Izzo, A Hazelrigg. 2024. [Gearing up for a season of disease and insect pest management on your farm](#): Segment 2, Scheduling biocontrol releases. Vermont Vegetable & Berry Growers Association Spring Seminar Series. Online Webinar. Apr. 3, 2024.

Sullivan, C. 2024. Bat parasites that could impact human residents. Bat Nuisance Wildlife Control Operators Workshop, VT Fish & Wildlife Dept. Rutland, VT. March 15, 2024.

Sullivan, C. & K Doda. 2024. [Habitat plantings to attract insect pollinators & insects that attack pests](#). Vermont Vegetable & Berry Growers Association Spring Seminar Series. Online Webinar. Feb. 21, 2024.

Sullivan, C.F., & M. Skinner. 2024. Don't forget to check yourself for ticks. VNLA Winter Meeting & Trade Show. February 15, 2024, UVM Davis Center, Burlington, VT.

R. Lamb, J. Sanderson, M. Daughtrey, S. Burnett, **Sullivan, C.F.,** E. Lobdell. Greenhouse IPM Scout School (collaboration among Cornell, UVM, UMAINE). 7 sessions: Feb. 13, 2024 – Mar. 26, 2024. Online Certificate Course/Webinar.

Sullivan C. & M. Skinner. 2024. Attractiveness of different yellow marigold varieties to thrips. 2024 Tri-state IPM Series: An Ounce of Prevention is Worth a Pound of IPM Cure. Jan. 18th & 25th 2024. Online (90 participants)

Sullivan C. & M. Skinner. 2023. Not-so Sweet Ticks Are Lurking in VT Sugarbushes. Chittenden County Maple Sugarmaker's Association Annual Meeting. Jan. 17, 2024, Proctor Maple Research Center, Underhill, VT. (20 attendees).

Sullivan C.F., M Skinner, C Glenister. 2023. Identifying Insects (Good & Bad) in High Tunnels Hands-On Session. Revitalizing Your Tunnel Vision High Tunnel Production Conference. Dec. 6-7, 2023, West Lebanon, NH. (147 participants)

Sullivan C.F., 2023. Microbial Biocontrol: An Emphasis on Greenhouse Pests and Ticks with Fungal Biopesticides. BioControl Lecture Series. Instructed by Scott Salom; Virginia Tech (with Ohio State and Purdue). Apr. 27, 2023. (30 participants)

Sullivan C.F., A. Wallingford. 2023. [High Tunnel Pests Old & New](#). Vermont Vegetable & Berry Growers Association Spring Seminar Series. Online Webinar. Mar. 8, 2023. (17 participants).

R. Lamb, J. Sanderson, M. Daughtrey, S. Burnett, **Sullivan, C.F.,** E. Lobdell. 2023. Greenhouse IPM Scout School (collaboration among Cornell, UVM, UMAINE). 6 sessions: Feb 1 - Mar. 8, 2023. Online Certificate Course/Webinar. (34 participants)