

CHERYL FRANK SULLIVAN

AFFILIATION

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[ResearchGate](#) | [Instagram](#)

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, Entomology Research Laboratory
2005 – 2022 Research Technician - Univ. of VT, Entomology Research Laboratory

Member of a dynamic research team made up of senior scientists, technicians and graduate students. Design, conduct and analyze laboratory and field research on the biological control and integrated pest management (IPM) of tick vectors and agricultural and exotic forest pests. Primary research emphasis focused on pest surveillance, biotechnology (microbial biopesticide development - entomopathogenic fungi), parasitoids and predatory arthropod-pest interactions and development of IPM systems to sustain pollinators and beneficial insects that provide pest management services. Assists with coordinating annual Tri-State IPM workshops and biennial Northeastern High Tunnel Conference for greenhouse and high tunnel growers and assists with IPM public awareness/education programs. Provides one-on-one training to greenhouse and high tunnel growers statewide on practices towards reducing chemical insecticide applications using IPM while emphasizing biological control.

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
June 2003 – Dec. 2003 Environmental Analyst I, VT Dept. of Environmental Conservation
May 2003 Watershed Educator – Watershed Alliance, Burlington, Vermont
2002 – 2003 Research Assistant - Gund Institute for Ecological Economics, Univ. of VT
2001- 2003 Lab and Field Technician - VT Monitoring Cooperative, Univ. of VT
May 2001 – Aug. 2001 Lab and Field Assistant - Rubenstein Ecosystem Science Laboratory, Univ. of VT

SELECTED PUBLICATIONS (Refereed Journals)

- 2022** Sullivan, C.F., Ghalehgolabbehbahani, A., Parker, B.L., and Skinner, M. 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
- 2022** Ghalehgolabbehbahani, A., C.F. Sullivan, B. Davari, B.L. Parker, A. Razavi & M. Skinner. 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
- 2022** Sullivan, C.F., Parker, B.L., Skinner, M. Survival of off-host *Dermacentor albipictus* (Acari: Ixodidae) adult females and larvae underwater. *Canadian Journal of Zoology*. doi: 10.1139/cjz-2022-0003 [In Press]
- 2022** Sullivan, C.F., Parker, B.L., Skinner, M. 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

- 2022** Sullivan, C.F., Occi, J., Brennan, J., Robbins, R., Skinner, M., Bennett, A., Parker, B.L., Fonseca, D. First report of the bat tick *Carios kelleyi* (Acari: Ixodida: Argasidae) from Vermont, USA. *Journal of Medical Entomology*. doi: tjab232
- 2021** Sullivan, C.F., Parker, B.L., Kim, J.S., and Skinner, M. Effectiveness of granular formulations of *Metarhizium anisopliae* and *Metarhizium brunneum* (Hypocreales: Clavicipitaceae) on off-host larvae of *Dermacentor albipictus* (Acari: Ixodidae). *Biocontrol Sci Tech*. doi:10.1080/09583157.2021.1926428
- 2020** Sullivan, C.F., Parker, B.L., Davari, A., Lee, M.R., Kim, J.S., and Skinner, M. 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
- 2020** Sullivan, C.F., Parker, B.L., Davari, A., Lee, M.R., Kim, J.S., and Skinner, M. Pathogenicity of *Metarhizium anisopliae* and *Metarhizium brunneum* isolates and efficacy of Met52 G against winter tick larvae, 2019. *Arthropod Management Tests*, 45:1-3. doi:10.1093/amt/tsaa100

SELECTED PRESENTATIONS/WORKSHOPS (from past 3 years)

- 2022** Sullivan, C.F. & M. High Tunnel Pests & Natural Enemies 101. UVM Farmer Training Program Guest Speaker. UVM Horticultural Research Farm. July 13, 2022.
- 2022** Skinner, M. & C. Frank Sullivan. Un-Bee-lievable Beneficials 101. Univ. of VT, Master Gardener Seminar. May 25, 2022. Online.
- 2022** Sullivan, C.F. Mycoacaricides for the biological control of ticks: The winter tick (*Dermacentor albipictus*) and moose. Ecology & Evolution Seminar - Rutgers University, instructed by Dr. Dina Fonseca. April 8, 2022. Online.
- 2022** Donovan, T. & C. Frank Sullivan. Moose Ecology & Winter Ticks. USGS Wildlife Disease Group Meeting. March 31, 2022. Online.
- 2022** Donovan, T. & C. Frank Sullivan. Moose Ecology & Winter Ticks. Guest Speaker: Wildlife Health & Conservation (ASCI 147), University of Vermont, instructed by Dr. Krista Jones. March 22, 2022. Online.
- 2022** Skinner, M., C. Frank Sullivan, R. Cloyd, R. Buitenhuis, et al. Dealing with the root of the problem. 26th Annual Tri-State Greenhouse IPM Program Workshop, Online, Jan. 20 (Session1) & 27 (Session2), 2022.
- 2022** Sullivan, C. Frank, M. Skinner. Do-it-Yourself (DIY) Guardian Plant Systems for Western Flower Thrips. 26th Annual Tri-State Greenhouse IPM Program Workshop, Online, January 27 (Session2), 2022.
- 2021** Skinner, M., C. Frank Sullivan. Supporting wild pollinators on diversified vegetable farms. Vermont Vegetable and Berry Growers Association and UVM Extension Aug. 24, 2021, Intervale, Burlington, VT.
- 2021** Skinner, M., C. Frank Sullivan. New American Farmer Hands-On Training in IPM April 20, 2021, Intervale, Burlington, VT
- 2021** Sullivan, C. Frank. Winter Ticks & Management. Guest Speaker: UVM RESNR-FOR/WFB 095 Intro to Forestry and Wildlife: co-speaker with Dr. Therese Donovan. February 17, 2021.
- 2021** Skinner, M., C. Frank Sullivan, S. Wainwright-Evans, M. Daughtry, C. Smith, G. Fish, K. Murray. IPM Virtual Reality. 25th Annual Tri-State Greenhouse IPM Program Workshop, Online, January 7 (Bugging Out) & 21 (Disease Disasters), 2021.
- 2020** Smith, C., A. Wallingford, C.F. Sullivan. Diseases & Insects in High Tunnels: Common and Not-so-common Problems and How to Manage Them. High Tunnels After Dark. Virtual High Tunnel Production Conference. December 1,8 &15, 2020.
- 2020** Sullivan, C.F., M. Skinner & A. Hazelrigg. Vermont Vegetable & Berry Growers Association (VVBGA) Webinar Series: Aphids on Winter Crops. September 15, 2020.
- 2020** Sullivan, C.F., M. Skinner & R. Maden. Vermont Vegetable & Berry Growers Association (VVBGA) Webinar Series: Tomato Pests. August 12, 2020.
- 2020** Sullivan, C.F. A Bit About Ticks in VT. Guest Speaker: UVM PSS-28 April 20, 2020.