

**VICTOR M. IZZO, PH.D.**

63 Carrigan Dr. | 266 Jeffords Building | University of Vermont | Burlington, VT 05405 | 802-999-6906 | vizzo@uvm.edu

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**EDUCATION**

<i>University of Vermont</i>	Ph.D. Plant and Soil Science	2014
<i>Drexel University</i>	M.S. Bioscience and Biotechnology	2003
<i>State University of New York at Geneseo</i> Minor: Environmental Studies	B.S. Chemistry	1999

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**RELEVANT EMPLOYMENT/POSITIONS**

August 2015 - present	<b>Lecturer</b> , Department of Plant and Soil Science University of Vermont (UVM)
January 2015 – present	<b>Educational Coordinator</b> , Agroecology and Livelihoods Collaborative (ALC), University of Vermont (UVM)
July 2011 - present	<b>Online Instructor and Facilitator</b> , Leadership for Sustainable Food Systems Professional Certificate Program, Continuing and Distance Education, UVM
August 2014 - 2017	<b>Adjunct Lecturer</b> , Department of Environmental Policy Champlain College, VT
August 2014 – March 2015	<b>Interim Chair of Environmental Policy Program</b> , Champlain College, VT
January 2014 - June 2014	<b>Post-doctoral Research Associate</b> , Insect Agroecology Lab, Depart. of Plant and Soil Science, UVM
August 2008 – May 2014	<b>Teaching Assistant/Ph.D Student</b> , Insect Agroecology Lab, Department of Soil Science, UVM
August 2010 - March 2011	<b>Biology Teacher</b> , Greengates - The British International School in Mexico, DF
August 2007 – August 2008	<b>Biology and Physics Teacher</b> , The American School of Mexico, Mexico, DF
January 2005- January 2006	<b>Naturalist Instructor</b> , The Ecology School, Saco, ME

**COMMITTEE AND COMMUNITY MEMBERSHIP**

- UVM College of Agriculture and Life Sciences – **Curriculum Committee**
- UVM Plant and Soil Science Department – **Undergraduate Affairs and Curriculum Committee**
- UVM Environmental Studies Department – **Curriculum Committee**
- UVM Farmer Training Program – **Advisory Board**
- UVM Master Gardener Program – **Instructor**

## **ACADEMIC REFERENCES**

V. Ernesto Mendez <a href="mailto:Ernesto.Mendez@uvm.edu">Ernesto.Mendez@uvm.edu</a>	Professor/Department Head	Plant and Soil Science	UVM
Yolanda Chen <a href="mailto:Yolanda.Chen@uvm.edu">Yolanda.Chen@uvm.edu</a>	Associate Professor	Plant and Soil Science	UVM
Valerie Esposito <a href="mailto:vesposito@champlain.edu">vesposito@champlain.edu</a>	Professor/Department Head	Environmental Policy Program	Champlain College

## **AWARDS, FELLOWSHIPS AND HONORS**

- 2019 Joseph E. Carrigan Award – Nominated for Excellence in Teaching (award pending) – College of Agriculture and Life Sciences – (UVM)
- 2017 Teaching Award of Merit – North American Colleges & Teachers of Agriculture (NACTA)
- 2010 Teaching Assistant of the Year Award – Plant and Soil Science Department – University of Vermont
- 2010 Graduate Student Teaching Award of Merit – North American Colleges & Teachers of Agriculture (NACTA)
- 2006 T. Polgar Hudson River Research Summer Fellowship
- 2003 Drexel University Research Day Poster Award (Natural and Applied Science) – 1st Place
- 2002 Drexel University Teaching Assistant of the Year

## **THESIS COMMITTEES**

*Undergraduate:*

*Julia Lees '19*

*Meghan Conway '19*

*Margot Van Horne '17*

*Paolo Filho '17*

## **CURRENT AND RECENTLY FUNDED PROJECTS:**

### **Strategies for Leek Moth Control on Diversified Vegetable Farms**

#### ***Principal Investigator***

Northeast Sustainable Agriculture and Education (SARE)	2019-2021	Research and Education
	<b>\$102,799</b>	

### **An assessment of the potential tradeoffs associated with brassica cover crop usage on vegetable farms in Vermont.**

#### ***Principal Investigator***

UVM College of Agriculture and Life Sciences	2018-2019	CALS/Extension Grant
	<b>\$5,000</b>	

### **Using regionally adapted entomopathogenic nematodes as a biological control for Colorado potato beetle**

#### ***Principal Investigator***

Vermont Agency of Agriculture, Food and Markets	2017-2020	Specialty Crop Block Grant
	<b>\$40,563</b>	

### **Application of regionally adapted nematodes for root maggot management**

#### ***Co-Principal Investigator***

Northeast Sustainable Agriculture and Education (SARE)	2017-2019	Farm Partnership Grant
	<b>\$13,046</b>	

### **Leek Moth Monitoring and Management Program**

#### ***Principal Investigator***

Vermont Agency of Agriculture, Food and Markets

\$2016-2019

Specialty Crop Block Grant

**\$39,023**

### **Foliar Nematode Trials for Leek Moth Management**

#### ***Principal Investigator***

Onion River Coop

2017-2018

City Market Patronage Seed Grant

**\$3,873**

## **EDUCATION AND OUTREACH EXPERIENCE**

### ***University of Vermont***

Curriculum Development:

**Certificate in Graduate Studies in Agroecology (CGSA)** – primary curriculum developer and academic advisor for the 15-credit program low-residency certificate program (<https://www.uvm.edu/agroecology/learning/cgsa/>)

**Agroecology and Livelihoods Collaborative (ALC) Fellowship Program** – primary curriculum developer for the 6-credit agroecology and leadership fellows program (<https://www.uvm.edu/agroecology/fellows/>)

**Breakthrough Leaders for Sustainable Food Systems Professional Certificate** – co-curriculum developer and facilitator for the non-credit leadership and food systems certificate (<https://learn.uvm.edu/program/sustainable-food-systems/>)

Courses Taught:

(asterisk indicates current offerings)

**\*Ecological Foundations of Agroecology (Graduate Course) 3 Credits** – Examines the ecological foundations of Agroecology, largely from a biophysical perspective

**\*Introduction to Agroecology (Graduate Course) 3 credits – Co-instructor** - In-depth overview of research and applications in the field of agroecology, with a focus on providing the student with conceptual and analytical content.

**\*Agroecology, Food Sovereignty & Social Movements. 3 Credits. – Co-instructor** - Investigates social, political, and economic elements of the global food system from multiple perspectives.

**\*Introduction to Agroecology (For undergraduate majors) 3 Credits** – Introductory course on the basics of ecological agriculture and its historical underpinnings

**Permaculture (Undergraduate elective) 3 Credits** – Primer on the ecological foundations of permaculture design

**\*A Bug's Life (Undergraduate elective) 3 Credits** – A journey through the diversity of the insect world for non-majors.

**Entomology and Pest Management (For undergraduate majors) 4 Credits with Lab** - A field survey of the class Insecta with special emphasis on agricultural pest management.

**Biological Control (Undergraduate elective) 3 Credits** – An exploration of the ecological foundations of biological control.

**Ecology & Evolution (For undergraduate majors) 4 Credit with Labs** – Introductory course on the interaction of ecology and evolution.

**\*Biology (For undergraduate majors) 4 Credit with Labs** - Introductory biology course for undergraduate biology majors

### ***Champlain College***

Educational Administration:

**Environmental Policy Program – Interim Director** – performed all administrative, advisory and educational leadership activities including the development of a curricular assessment plan for the program.

Courses taught:

(asterisk indicates current offerings)

**\*Food Systems and Policy (For Majors)** – A critical look at the US food system from production to consumption.

**Environmental Issues (For Majors)** – A broad exploration of the major global, regional and local environmental issues facing the human population.

**Environmental Policy and Evaluation (For Majors)** – An assessment based course that uncovers the process of environmental policy evaluation.

### ***Vermont agricultural community***

On-going Outreach Activities:

**UVM Master Gardener Program** – primary instructor for the entomological portion of the course

**Farmer Training Program** – an advisory board member and research educator for the program.

**Vermont Community Garden Network** – educator for soil health and sustainable pest management

### **CHRONOLOGICAL LIST OF PEER-REVIEWED PUBLICATIONS IN THE LAST 5 YEARS**

Méndez, V.E., S.R. Gliessman and **V.M. Izzo**. Agroecology: The Ecology of Sustainable Food Systems. 4th Edition. CRC Press/Taylor & Francis: Boca Raton, FL. (Estimated publication date: Dec 2020, publishing contract completed and currently in prep)

**Izzo, Victor M**, Yolanda H Chen, Sean D Schoville, Cong Wang, David J Hawthorne (2018) “Origin of Pest Lineages of the Colorado Potato Beetle (Coleoptera: Chrysomelidae)”, *Journal of Economic Entomology*, tox367

Schattman, R., **V. Izzo**, Y.H. Chen (2015) Exclusion netting for managing spotted wing Drosophila on berry farms in the Northeastern United States. *ARLG Research Brief # 3*. Agroecology and Rural Livelihoods Group (ARLG), University of Vermont: Burlington, VT.

**Izzo, Victor M**, J. Armstrong, D.H. Hawthorne, Y. H. Chen “Time of the Season: The effect of photoperiodism on host mediated cues for diapause induction in an insect herbivore, *Leptinotarsa decemlineata*” *Ecological Entomology* 2014, 39(1): 75-82.

**Izzo Victor M.**, D. H. Hawthorne, Y. H. Chen “Geographic variation in winter hardiness of a common agricultural pest, *Leptinotarsa decemlineata*, The Colorado potato beetle.” *Evolutionary Ecology* 2014, 28(3): 505-520

**Izzo Victor M.**, N. Mercer, J. Armstrong, Y. H. Chen “Variation in host usage among geographic populations of *Leptinotarsa decemlineata*, the Colorado potato beetle” *Journal of Pest Science* April 2014: 1612-4758

Saija P, L. Lindström, A. Lyytinen, J. Mappes, Y.H. Chen, **V. M. Izzo**, A. Grapputo. “Pre-invasion history and demography shape the genetic variation in the insecticide resistance-related acetylcholinesterase 2 gene in the invasive Colorado potato beetle” *BMC Evolutionary Biology* 2013, 13:13

**Recent Conference Presentations:**

**“ Insect Pests in a Changing Climate”**

November 2019                      Invited Lecture                      Vermont Master Gardener State Conference

**“Pre and Post Harvest Strategies for Leek Moth Control”**

November 2019                      Volunteered Presentation                      Entomological Society of America (National Meeting)

**“Changing Climate, Changing Research: Exploring Agroecology through Participatory On-Farm Research”**

December 2018                      Invited Lecture                      Stone Barns Center - Tarrytown, NY

**“Origin of Pest Lineages of the Colorado Potato Beetle (Coleoptera: Chrysomelidae)”**

December 2018                      Volunteered Presentation                      Entomological Society of America (National Meeting)

**“Food Systems Thinking and Public Health”**

February 2017                      Invited Presentation                      Dartmouth College

**“The leek moth invasion: A monitoring program detailing the current and potential distribution of leek moth within Vermont and New York”**

November 2015                      Volunteered Presentation                      Entomological Society of America (National Meeting)

**“The Mexican potato beetle? Phylogeographic insights into the historical expansion of *Leptinotarsa decemlineata*”**

November 2015                      Volunteered Presentation                      Entomological Society of America (National Meeting)