

**Jacob S. Suissa**  
**Curriculum Vitae**  
**Jsuissa@g.harvard.edu**  
**June 2018**

**EDUCATION:**

Harvard University: PhD Student  
Graduate School of Arts and Sciences  
Department of Organismic and Evolutionary Biology  
Advisor: Dr. William (Ned) Friedman

The University of Vermont, Class of 2016  
College of Agriculture and Life Sciences  
GPA: 3.88 Magna Cum Laude  
Bachelor of Science

**PUBLICATIONS**

---

- Suissa, J. S., and Barton, K.E. (2018). Intraspecific and interspecific variation in prickly poppy resistance to non-native generalist caterpillars. *Botanical Sciences*. 96 (2), 168-179.
- Suissa, J. S. Taylor, C. W. Zimmer, E. A. Determining cryptic parentage in NW North American quillworts (*Isoetes*) using nuclear dosage and whole chloroplast genomes. **In Preparation**

**GRANTS AND SCHOLARSHIPS**

---

- Recipient of the American Society of Plant Taxonomists, Graduate Student Research Grant. \$1,000 (‘18): Using molecules and morphology to resolve the cryptic species in the Central American quillwort (*Isoetes* L.) complex.
- Recipient of the Huyck Graduate Student Research Grant. \$1,000 (‘18): Investigating location and timing of CAM-like photosynthesis in the aquatic lycophyte genus, *Isoetes*
- Recipient of the Harvard University Herbarium Graduate Research Grant. \$2,000 (‘17): Investigating lateral thickening in *Isoetes andicola*.
- Recipient of the University of Vermont Summer Research Grant (‘15): Diversity of Aquatic Hyphomycetes in Northeastern Vermont
- Recipient of the University of Vermont W.H. Darrow Horticulture Prize (‘15)
- Recipient of the University of Vermont Seymour Horticultural Prize (‘15)
- Recipient of the University of Vermont Teaching Assistant Award (‘15)
- Recipient of the University of Vermont Lewis Ralph Jones Award (‘15)
- Recipient of the American Society for Horticultural Science (ASHS) Collegiate Scholars Award (‘15)
- Recipient of the ASHS Outstanding Horticultural Student Award (‘15)
- Recipient of the Burlington Garden Club Scholarship Recipient (‘15)
- Recipient of the The Boston Flower Exchange: Rachel Butterworth Dietz Scholarship (‘14)
- Recipient of the UVM College of Agriculture & Life Sciences – Aplin/Bennett/Holzer Scholarship (‘14,‘15)
- Recipient of the Perennial Plant Association member and national scholarship award recipient (‘14)
- Recipient of the UVM Research Grant (‘13-‘14): Effects of fluoride on *Dracaena* cultivars.
- Recipient of the New England Farm and Garden Association Scholarship recipient (‘13)

**PRESENTATIONS & POSTERS**

---

- Suissa, J. Allopolyploids and Autopolyploids: population dynamics and polyploid speciation in northwestern North American *Isoetes* (Quillworts). Botanical Society of America Symposium (2018). **Invited Presentation**
- Suissa, J. Reticulate Evolution and Cryptic Parentage in North American *Isoetes*. Arnold Arboretum Seminars (2016). **Invited Presentation**
- Suissa, J. Diversity of Aquatic Hyphomycetes in Northeastern Vermont. The University of Vermont Student Research Fair (2015). **Invited Poster Session**
- Suissa, J. Effects of Fluoride on *Dracaena* cultivars. The University of Vermont Student Research Fair (2013 and 2014). **Invited Presentation**

## TEACHING & STUDENT OUTREACH

---

- Harvard University, OEB54 - Biology of Fungi, Teaching Fellow (‘18)
- Arnold Arboretum of Harvard University: Ferns of the Arnold Arboretum Course (‘18-recurring)
- The Evergreen School’s ‘Scientist of the Month’ (‘17)
- Science Mentor for high school students through Harvard University’s GradWagon (‘17-present)
- Harvard University Museum of Natural History, K-12 Class mentor (‘17-present)
- American Society of Plant Biologist (ASPB): Masters in Plant Science Team mentor (‘17-‘18)
- Teaching Assistant: PSS110 Home and Garden Horticulture (‘14)

## RESEARCH EXPERIENCE

---

***The Smithsonian Institution National Museum of Natural History*** February 2017–July 2017  
Washington, DC Research Technician – Dr. Elizabeth Zimmer

- Plant molecular and morphological systematics of Ferns and Lycophytes

***University of Vermont*** January 2016–May 2016  
Burlington, VT Research Technician- Dr. David Barrington

- Molecular systematics of the fern order Polypodiales

***University of Vermont*** May 2015–August 2015  
Burlington, VT Independent Research- Dr. David Barrington

- Morphological survey of aquatic fungi in Northeastern Vermont

***University of Hawaii, Manoa*** August 2015–December 2015  
Honolulu, HI Independent Research- Dr. Kasey Barton

- Plant herbivore interactions using endemic Hawaiian *Argemone* and generalist Lepidoptera

***University of Vermont*** October 2014–April 2015  
Burlington, VT Independent research- Dr. Mark Starrett

- Toxicity assays; ornamental crop (*Dracaena*) sensitivity to fluoridated water.

## FIELD EXPERIENCE

---

***Organization for Tropical Studies*** January 2017– February 2017  
San Jose, Costa Rica Ferns and Lycophytes Course

- Studying Fern and lycophyte diversity, systematics, and ecophysiology

***University of Hawaii*** October 2015–October 2015  
Honolulu, HI KIRC Conservation Volunteer

- Land conservation on the island of Kaho’olawe, HI

***University of Hawaii*** August 2015–December 2015  
Honolulu, HI Hawaiian Vascular Plants Course

- Systematics, biogeography, and taxonomy of Hawaiian vascular flora

***University of Vermont*** January 2015–February 2015 & 2017  
San Jose, Costa Rica Tropical Plant Systematics

- Systematics, biogeography, and taxonomy of Central American vascular flora

## WORK EXPERIENCE

---

***The Smithsonian Institution National  
Museum of Natural History***

Washington, DC

January 2017–Present

Global Genome Initiative (GGI) Gardens Intern

- Collection of diverse plant specimens and documentation through herbarium vouchers and tissue preserving

***United States National Arboretum***

Washington, DC

May 2016–December 2016

Horticultural Technician

- Grant funded position to manage The Asian Collections and The Conifer Collections

***Cyrus Pringle Herbarium***

Burlington, VT

January 2016–May 2016

Herbarium Technician

- Grant funded research to database Lichens and Bryophytes for the Lichen Bryophyte Climate Change (LBCC) initiative and New England vascular plants for the New England Vascular Plant (NEVP) Initiative

***Joseph Rock Herbarium***

Manoa, HI

August 2015–December 2015

Herbarium Technician

- Digitized comprehensive collection of Hawaii's Ferns and Fern Allies, on The Consortium of Pacific Herbaria website

***University of Vermont***

Burlington, VT

Plant & Soil Science Department

August 2012–May 2015

Summer Intern and Work-study

- Horticultural maintenance of UVM landscape and gardens

## SOCIETY MEMBERSHIPS

---

- American Fern Society
- The Linnean Society of London
- Botanical Society of America
- Torrey Botanical Society
- The New England Botanical Club
- American Society of Plant Taxonomists

## REFERENCES:

Dr. Mark Starrett  
Assoc. Professor  
University of Vermont  
802-999-5467  
Mark.starrett@uvm.edu

Dr. David Barrington  
Professor  
University of Vermont  
802-656-0431  
David.barrington@uvm.edu

Dr. William (Ned) Friedman  
Professor  
Harvard University  
617-384-7744  
Ned@oeb.harvard.edu

Dr. Michael Sundue  
Assistant Curator: Pringle Herbarium  
University of Vermont  
802-656-3221  
Michael.sundue@uvm.edu

Dr. Elizabeth Zimmer  
Principal Investigator  
NMNH, Smithsonian Institution  
202-633-0896  
Zimmerl@si.edu

Dr. Weston Testo  
Postdoctoral Fellow  
University of Florida  
802-338-7174  
Westontesto@gmail.com