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#### Curriculum Vitae

#### Alexander Blumenfeld

#### I. Personal Information

Graduate Research Assistant
Rollins Urban & Structural Entomology Facility
Department of Entomology
Texas A&M University
College Station, TX 77843

## II. Education

## **Doctor of Philosophy**

Texas A&M University, College Station, Texas

May 2022

Major: Entomology

GPA: 4.0

Advisor: Dr. Ed Vargo

# **Bachelor of Science**

University of Washington, Seattle, Washington

March 2016

Major: Environmental Science & Resource Management

Minor: Quantitative Science

GPA: 3.45

# III. Research Experience

## **Graduate Research Assistant**

August 2017 - Present

Department of Entomology, Texas A&M University

- Colony structure analyses of the odorous house ant Tapinoma sessile in contrasting environments.
- Next-generation sequencing to analyze population structure in termites and ants.

#### **Undergraduate Research Assistant**

**August 2015 - March 2016** 

School of Environmental & Forest Science, University of Washington

- Dr. Patrick Tobin's laboratory
- Modeled and elucidated factors that enable invasive species to thrive in nonnative environments.

#### **IV. Publications**

Under Review:

3. **Blumenfeld AJ** & Vargo EL. Geography, opportunity and bridgeheads facilitate termite invasions to the United States. *Biological Invasions* 

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#### Published:

- Eyer P-A, Espinoza EM, Blumenfeld AJ, Vargo EL. 2020 The underdog invader: Breeding system and colony genetic structure of the dark rover ant (*Brachymyrmex patagonicus* Mayr). *Ecology and Evolution* 10, 493-505. (doi:10.1002/ece3.5917)
- Eyer P-A, Blumenfeld AJ, Vargo EL. 2019 Sexually antagonistic selection promotes genetic divergence between males and females in an ant. *Proceedings of the National Academy of Sciences of the USA* 116, 24157–24163. (doi:10.1073/pnas.1906568116)

#### V. Presentations

# Presenting speaker:

- 5. **Blumenfeld A.J.** & Vargo E.L. **2020** Opportunities for termite invasions: Introductions of non-native termites to the US based on port of entry data. 74th Texas A&M University Urban Pest Management Conference and Workshop, Bryan, Texas.
- 4. **Blumenfeld A.J.**, Eyer P.A. & Vargo E.L. **2019** *Colony structure of the odorous house ant (*Tapinoma sessile), a native urban invader. 2019 ESA Southwestern Branch Meeting, Tulsa, Oklahoma.
- 3. **Blumenfeld A.J**. & Vargo E.L. **2018** Opportunities for termite invasions: Introductions of exotic termites to the USA based on port-of-entry data. 2018 ESA, ESC, and ESBC Joint Annual Meeting, Vancouver, Canada.
- 2. **Blumenfeld A.J.** & Vargo E.L. **2018** *Termite invasion patterns: Introductions of exotic termites to the US and Texas based on port-of-entry data.* 7<sup>th</sup> Texas Invasive Plant & Pest Conference, Austin, Texas.
- 1. **Blumenfeld A.J**. & Tobin P. **2016** *Drivers of impact: Modelling the drivers of invasion in North American non-native insects*. University of Washington School of Environmental & Forest Science Departmental Seminar, Seattle, Washington.

# Co-author of presented talk:

1. Eyer P.A., **Blumenfeld A.J.** & Vargo E.L. **2019** Sexually antagonistic selection maintains genetic diversity in an invasive ant. 4<sup>th</sup> Annual Southeast Texas Evolutionary Genetics and Genomics Conference, College Station, TX.

# VI. Awards/Grants/Scholarships

Texas A&M Department of Entomology, Dr. Roger E. Gold Endowed Graduate Scholarship (2019) - \$2,000 Pi Chi Omega, Dr. Austin Frishman Scholarship (2019) - \$2,000

Texas A&M OGAPS, Graduate Student Presentation Travel Grant (2019) - \$500

OHP Inc. Grant-in-aid of research (2018) – Honorable mention (2<sup>nd</sup> Place)

Texas Invasive Plant & Pest Conference, Student Presentation Award, 1st Place (2018) - \$100

Texas Invasive Plant & Pest Council, Student Travel Grant (2018) - \$375

Texas A&M College of Agriculture & Life Sciences, Excellence Fellowship (2017) - \$13,860

University of Washington, Scan | Design Foundation Fellowship (2014) - \$10,000

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# **Pest Ant Identification and Management Workshop**

Texas A&M University Urban Pest Management Conference and Workshop (2020)

• Aided pest management professionals in identifying key characteristics of common urban pest ants.

# Texas Science & Engineering Fair judge

Texas A&M University (2019 & 2020)

Animal Science senior category judge (9<sup>th</sup> – 12<sup>th</sup> grades).

# Exploiting the Dynamism of R Software to Help Entomologists Adapt to a Changing World: Crossing the Border from R Admirer to R User

2018 ESA, ESC, and ESBC Joint Annual Meeting (2018)

• Assisted in teaching attendees the fundamentals of analyzing data with R.

# **Project Pipeline tutor**

University of Washington (2014 - 2015)

Travelled to elementary and high schools within Seattle to tutor English, science and math.

# **Dream Project mentor**

University of Washington (2013 - 2014)

• Travelled to a high school in Seattle to assist students on the college application process, focusing specifically on underrepresented students.

# VIII. Professional Affiliations

**Entomological Society of America** 

International Union for the Study of Social Insects, North American Section

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