

Fabian List

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(979) 422-3624

Fabian List

Education

2017 - present, Texas A&M University, College Station TX

PhD in Entomology

Advisor: Dr. Edward Vargo

Expected graduation: September 2021

Project: Developing novel genetic and chemical tools to manage the invasive ant *Nylanderia fulva*

2013 - 2016, University of Hamburg, Hamburg Germany

MS in Biology

Advisor: Prof. Dr. Susanne Dobler

Thesis: In vitro analysis of cardenolide-resistance inducing substitutions in the Na,K-ATPase of *Homo sapiens* and *Drosophila melanogaster*

2008 - 2013, Heinrich-Heine University, Düsseldorf Germany

BS in Biology

Advisor: Prof. Dr. Hartmut Greven

Thesis: Observations in the reproductive behavior of the matrotrophic viviparous cockroach *Diploptera punctata*

Experience

August 2017 - present, *Research Assistant* at [Texas A&M University](#)

Rearing of pest insects

June 2017 - August 2017, *Teacher* at [SCHULWERK Hamburg](#)

Cram school, coaching school of medicine applicants

February 2014 - July 2017, *Teacher* at [Hochbegabtenförderung e.V.](#)

Non profit organization, supporting gifted children

November 2016 - June 2017, *Integration assistant* at [Lebenshilfe e.V](#)

Non profit organization, service for disabled children

April 2014 - April 2016, *Research Assistant* at [Zoological Museum Hamburg](#)

Insect specimen digitization project

November 2010 - June 2011, *Student Assistant* at

[Leibniz Institute for Environmental Medical Research \(IUF\)](#)

Lab animal (mice) care up to Biological Safety Level 3

Publications

2014, Greven, H., Flossdorf, D., Köthe, J., List, F. & Zwanzig, N.

„Running Speed and Food Intake of the Matrotrophic Viviparous Cockroach *Diploptera punctata* (Blattodea: Blaberidae) during Gestation.” *Entomologie heute*, 26 (2014):53-72

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University Teaching

Bio130 ZOOLOGY, *Lab Teaching Assistant*

Taught: Summer (Apr-Aug) 2010, 2011, 2012, 2013

Weekly Hours: Three classes with 4h each

Bio120 BOTANY, *Lab Teaching Assistant*

Taught: Winter (Oct-Feb) 2012/2013

Weekly Hours: Two classes with 6h each

TB 3 Biology for Medical Students, *Lab Teaching Assistant*

Taught: Winter (Oct-Feb) 2010/2011, 2011/2012

Weekly Hours: Two classes with 4h each

"How to do that..." Freshmen Tutorial, *Teacher, Founder*

Taught: Winter (Oct-Feb) 2010/2011, 2011/2012, 2012/2013

Weekly Hours: Four classes with 1h each

Internships

May 2017, LAVES, Pest Determination

Two week internship at the [Lower Saxony State Department for Consumer and Food Safety \(LAVES\)](#)

Conference Presentations

2019, *Talk*, Entomology 2019, ESA annual meeting

List, F., Tarone, A., Vargo, E. L.

Investigating the repulsive effects of a fly maggot on invasive ant species

2019, *Talk*, 67th Annual Meeting of the ESA Southwestern Branch

List, F., Benedict, B., Flint, C., Howard, S., Xiong, C., Song, H.

Investigating the flight capability of the Blattodea, effects of wing morphology, size and behavior in 15 cockroach species

2019, *Talk*, 73rd Texas AM University Urban Pest Management Conference

List, F

Opportunities and Obstacles Using RNAi for Ant Control

2018, *Talk*, Entomology 2018, ESA annual meeting

List, F., King, J. T., Davitt, A., Tarone, A., Vargo, E. L.

Transcriptome analysis in *Nylanderia fulva* under varying diets to improve colony growth and identification of RNAi target genes

2018, *Talk*, 66th Annual Meeting of the ESA Southwestern Branch

List, F., Dalla, S., Dobler, S.

Comparing cardenolide resistance induced by substitutions from the Na,K-ATPase of *Danaus plexippus* and *Rattus norvegicus*

2015, *Poster*, 108th Annual Meeting of the German Zoological Society

List, F., Dalla, S., Dobler, S.

In vitro analysis of cardenolide-resistance through substitutions in the Na,K-ATPase of *Homo sapiens* and *Drosophila melanogaster*

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Honors and Awards

2020, Award, National Conference of Urban Entomology 2021

Awarded with a Student Travel Award

\$300

2019, Award, Student Organization Funding Assistance Board (SOFAB)

Funding for travel of the Linnaean Team

\$2,000 travel award for the team

2019, Award, SOFAB

Supplies for the Entomology Graduate Student Organization (EGSO)

\$280

2019, Team Competition, 67th Annual Southwestern Branch Meeting of the Entomological Society of America

1st place in the Linnaean Games with the graduate student team.

\$50 personal award, \$1,000 travel award for the team

2019, Honoration, Annual Celebration of the EGSO

Honored for outstanding contributions towards advancement of the EGSO.

2018, Scholarship, Texas A&M

Awarded the Roger Gold scholarship.

\$2,000

2018, Scholarship, Pi Chi Omega

Awarded the Founders Endowment Scholarship of the national pest control fraternity Pi Chi Omega.

\$2,000

2018, Team Competition, 66th Annual Southwestern Branch Meeting of the Entomological Society of America

1st place in the Linnaean Games with the graduate student team.

\$50 personal award, \$1,000 travel award for the team

2017, Fellowship, Texas A&M University

Awarded the College Of Agriculture and Life Sciences Excellence Fellowship.

\$35,416

2015, Competition, 108th Annual Meeting of the German Zoological Society

1st place, poster presentation in the physiology section.

€300

Memberships

2015 - present, German Zoological Society (DZG)

2018 - present, Entomological Society of America (ESA)

2018 - present, Pi Chi Omega

2017 - present, Entomology Graduate Student Organization (EGSO)

Elected treasurer for 2019/2020

2018 - present, Aggie Women in Entomology (AWE)

2019 - present, Phi Kappa Phi Honor Society

2014 - present, Animal Protection Association Hamburg (HTV)

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Volunteering and Extracurricular Activities

Texas A&M Extension Department

- Texas Science Olympiad 2019, Ecology Section, *Event Supervisor*
- Texas Junior Academy of Science 2018, *Judge*
- Texas Science Olympiad 2018, Ecology Section, *Event Supervisor*
- Junior Science Bowl 2018, *Event Moderator*
- Texas Junior Academy of Science 2017, *Judge*

Junior Academy 2016 Bad Segeberg

- Leading course instructor

Zoological Museum Hamburg

- Revision and digitization of the museums Blattodea collection
- Cooperation with cockroach.speciesfile.org and Dr. Beccaloni

Biology Student Council Hamburg

- Elected officer from 2014 to 2015
- Reestablished the student council of the department

Biology Student Council Düsseldorf

- Elected officer for four years from 2009 to 2013
- Organizing student retreats and activities
- Initiation of change in the curriculum on department level

Biology Department Executive Board Member Düsseldorf

- Elected student member for the fiscal year 2011/12
- Mediation between faculty professors and students

Professional Skills

Life Sciences

- Entomology
- Ecology
- Gene Expression
- RNAi
- Social Insects
- Cell Culture
- Animal Rearing
- microRNA
- Pests

Bioinformatics

- UNIX commandline
- Cluster Computing
- Genomics
- Phylogenetics
- Transcriptomics
- R

Languages

- German (native)
- English (C1, fluent)
- Japanese (basic)