

# Sam C. Levin

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German Centre for Integrative Biodiversity, Deutscherplatz 5e, Leipzig, Germany

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## Education

*Martin Luther University Halle-Wittenberg*

PhD Biology 2018-Present

*Martin Luther University Halle-Wittenberg*

MSc Biology 2016-2017

*Wake Forest University*

BA Biology 2008-2012

## Work Experience

*Martin Luther University Halle-Wittenberg*

Research Officer 2018-Present

*Helmholtz-Zentrum für Umweltforschung*

Student Research Assistant 2017

*German Centre for Integrative Biodiversity*

Student Research Assistant 2016 - 2018

*University of Missouri-St. Louis*

Field Research Technician 2015 - 2016

*Washington University in St. Louis*

Field Research Technician 2014 - 2015

*Student Conservation Association*

National Park Service Southeast EPMT Intern 2013 - 2014

## Research Interests

**Demography:** what is the relative importance of life history, abiotic, and biotic factors in determining species success

**Invasions:** understanding how demography, phylogeny, and functional traits interact to determine who becomes invasive and who remains benign

**Open-source Software:** creating tools for researchers to efficiently analyze, publish, and share their data

## Publications

### *Journal Articles*

Carl G, **Levin SC**, Kühn I. (2018) spind: an R Package to Account for Spatial Autocorrelation in the Analysis of Lattice Data. Biodiversity Data Journal. 6: e20760. DOI: <https://doi.org/10.3897/BDJ.6.e20760>

### *Presentations*

\* denotes mentee; # denotes poster presentations, otherwise oral

#### **2018**

**Levin SC**, RM Crandall, TC Pokoski, Stein C, Knight TM. Mechanisms underlying the differential success of alien plant species. Ecological Society of America – New Orleans, USA

#### **2016**

**Levin SC**, Stein C, Knight TM. Phylogenetic novelty alters the strength of biotic interactions for exotic plant species. NeoBiota 2016 – Vianden, Luxembourg

**Levin SC**, Stein C, Knight TM. Phylogenetic novelty alters the strength of biotic interactions for exotic plant species. iDiv Conference – Leipzig, Germany

#### **2015**

Poor E\*,Thompson AH\*, **Levin SC**, Knight TM. Novel functional traits aid the success of the invasive biennial *Carduus nutans*. Washington University in St. Louis Undergraduate Research Symposium – St. Louis, MO #

Workman M\*, Thompson AH\*, **Levin SC**, Knight TM. Competitive release may increase the fitness of exotic plants in their novel range. Washington University in St. Louis Undergraduate Research Symposium – St. Louis, MO #

#### **2014**

Patterson A\*, Galluppi CG, **Levin SC**, Maynard EE, Knight TM. How plant species become common: examining the success strategies of native and invasive plants. Washington University in St. Louis Undergraduate Research Symposium – St. Louis, MO #

Van Horn T\*, Galluppi CG, **Levin SC**, Knight TM. Examining the enemy release hypothesis in Ozark woody species. Washington University in St. Louis Undergraduate Research Symposium – St. Louis, MO #

## Software

Maintainer (current) and developer (> v2.0.0) of *spind*. [CRAN](#) and [Github](#)

Contributed to development of [popler](#), [popdemo](#), [Rcompadre](#), and [Rage](#).

## Languages

Fluent in English and R, proficient with Stan, Git, and C++, and familiar with Python and German.

## **Mentoring**

Tyler Pokoski	University of Iowa 2017
Tom Collins	Missouri S&T 2017
Amy Patterson	Washington University in St. Louis 2015
Amibeth Thompson	Illinois College 2014
Sami Hunkler	University of California, Berkeley 2017
Thomas Van Horn	Washington University in St. Louis 2018
Sarah Link	Eureka High School 2015
Brenda Alvarado	Francis Howell North 2015
Matilda Workman	Kirkwood High School 2017
Elizabeth Poor	Clayton High School 2017

## **Service**

Reviewer for BMC Ecology

## **References**

### **Dr. Tiffany Knight**

Martin Luther University, Helmholtz-Zentrum fuer Umweltforschung, German Centre for Integrative Biodiversity

[tiffany.knight@idiv.de](mailto:tiffany.knight@idiv.de)

### **Dr. Roberto Salguero-Gomez**

Oxford University Department of Zoology

[rob.salguero@zoo.ox.ac.uk](mailto:rob.salguero@zoo.ox.ac.uk)