

# Dr. rer. nat. Alexander S. Chockley

Freelance Scientific Editor

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Date of Birth:  
May 18, 1988

Place of Birth:  
Cleveland, Ohio, USA

Citizenship:  
United States of America

## EDUCATION

**Dr. rer. nat., Neurobiology**  
University of Cologne, Germany  
2020

Dissertation: The role of the femoral chordotonal organ in motor control, interleg coordination, and leg kinematics in *Drosophila melanogaster*  
[Link](#)

**M.Sc., Neurosciences**  
University of Bonn, Germany  
2014

Targeted memory reactivation in the waking state

**B.S., Zoology**  
Michigan State University, USA  
2010

Ecology, Evolution, and Organismal Biology

## AWARDS

**Doctoral Candidate Fellowship,**  
Research Training Group Neural Circuit Analysis (DFG GRK1960)

## LANGUAGES

English      ■ ■ ■ ■ ■ ■  
German      ■ ■ ■ ■ □

## PUBLICATIONS

**Chockley AS**, Dinges GF, Ratican S, di Cristina G, Bockemühl T, Büschges A. Femoral Chordotonal Organ Neurons Differentially Affect Leg Movements and Coordination During Walking in *Drosophila melanogaster*. (in prep.)

Dinges GF, **Chockley AS**, Bockemühl T, Ito K, Blanke A, Büschges A. 2021. Location and arrangement of campaniform sensilla in *Drosophila melanogaster*. *J Comp Neurol* 529(4):905-925  
[Link](#)

Szczecinski NS, Bockemühl T, **Chockley AS**, Büschges A. 2018. Static stability predicts the continuum of interleg coordination patterns in *Drosophila*. *J Exp Biol* 221(22)  
[Link](#)

Volberg G, **Chockley AS**, Greenlee M. 2017. Do graphemes attract spatial attention in grapheme-color synesthesia? *Neuropsychologia* 99:101-111  
[Link](#)

## RELEVANT EXPERIENCE

**Postdoctoral Research Associate** Feb. 2020 - Sep. 2021  
*Junior Research Group Ache, Department of Neurobiology and Genetics, University of Würzburg, Germany*  
Context-dependent flexibility in sensorimotor networks in *Drosophila*; Patch-clamp electrophysiology, optogenetics, behavioral genetics; co-supervision of graduate and undergraduate students; funding acquisition

**Scientific Editor** 2016 - present  
*Freelance*  
Scientific and language editing of manuscripts, abstracts, and presentations for clients from Asia, Europe, and South America; management and advising of manuscript construction from initial drafting through to revisions and publishing

**Graduate Research Assistant** 2015 – Sep. 2020  
*AG Büschges, Dept. of Animal Physiology, University of Cologne, Germany*  
Developed behavioral data acquisition devices and analysis; immunohistochemistry; confocal fluorescence microscopy; supervised Master's student trainees; acquired data for and wrote scientific manuscripts for publication in international journals; taught courses in Neurobiology to Bachelor's and Master's students

**Instructor** 2015  
*Center for Language and Communication, University of Regensburg, Germany*  
Developed and taught two English as a Second Language courses for Bachelor's students: Scientific Writing and English for Psychologists and Biologists

**Research Associate** 2014 - 2015  
*Dept. of Experimental Psychology, University of Regensburg, Germany*  
Designed, implemented, and analyzed EEG psychophysics experiments in human participants; taught EEG data analysis to Master's students

## SOFTWARE

Microsoft Office ■ ■ ■ ■ ■  
CorelDraw ■ ■ ■ ■ □  
MATLAB ■ ■ ■ □ □

## INVITED TALKS/POSTERS

### German Neuroscience Society Meeting 2019

*Göttingen, Germany*

**Invited Talk:** Subgroups of femoral chordotonal organ neurons differentially affect leg movements and coordination in *D. melanogaster*

### International Brain Research Organization World Congress 2019

*Daegu, Korea*

**Poster:** Subgroups of femoral chordotonal organ neurons differentially affect leg movements and coordination in *Drosophila melanogaster*

### Neural Circuits of the Insect Ventral Nerve Cord 2018

**HHMI Janelia**

*Ashburn, VA, USA*

**Poster:** Neuronal subgroups in the femoral chordotonal organ of *D. melanogaster* and their influence on locomotion

### Society for Neuroscience Meeting 2017

*Washington D.C., USA*

**Poster:** Anatomy and function of distinct groups of sensory neurons in the femoral chordotonal organ of *Drosophila*

### German Neuroscience Society Meeting 2017

*Göttingen, Germany*

**Poster:** Effects of optical activation of groups of sensory neurons in the femoral chordotonal organ of *D. melanogaster*

### NeuroFly 2016

*Chania, Greece*

**Poster:** Anatomical and functional characterization of sensory neurons in the femoral chordotonal organ of *D. melanogaster*

### European Conference on Visual Perception 2015

*Liverpool, UK*

**Poster:** Spatial attention to graphemes in grapheme-color synesthesia

## ORGANIZATIONAL EXPERIENCE

### Doctoral Candidate Representative

2016 - 2019

*Research Training Group Neural Circuit Analysis, University of Cologne*

Elected by doctoral candidates to liaise with graduate school board members and act as a mediator in conflict situations; organized transition from stipends to employment contracts for doctoral candidates

## REFERENCES

Will be provided on request