

# BIANCA JASKE

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## PERSONAL INFORMATION

*address* Chair of Behavioral Physiology and Sociobiology  
University of Würzburg, Biocenter  
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## EDUCATION

*Oct 2020 – present* Doctoral Student - University of Würzburg  
Department of Behavioral Physiology and Sociobiology  
Visual processing of spatial orientation in the bumblebee *Bombus terrestris*.  
Advisor: Prof. Dr. Keram Pfeiffer

*Sep 2022 – Oct 2022* Sensory Ecology Course - Lund University  
International course for postgraduate students  
Course Leaders: Prof. Dr. Eric Warrant, Prof. Dr. Marie Dacke, Prof. Dr. Christer Löfstedt

*Oct 2017 – Mar 2020* Master of Science - Bielefeld University  
Behavior: From Neural Mechanisms to Evolution  
Thesis: Input of hair field afferents to a descending interneuron  
Advisor: Prof. Dr. Volker Dürr

*Oct 2014 – Sep 2017* Bachelor of Science - Bielefeld University  
Biologie  
Main Topic: Behavior and Neural Mechanisms  
Thesis: Targeted visual manipulation of individual walking biases  
Advisor: Dr. Norbert Boeddeker

*Sep 2006 – Jul 2014* Abitur  
Graf-Adolf-Gymnasium Tecklenburg

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## WORK EXPERIENCE

*Oct 2020 – present* Research Assistant - University of Würzburg  
Extracellular recordings using tetrodes to investigate visual processing of spatial orientation in the bumblebee *Bombus terrestris*.

*Apr 2020 – Sep 2020* Research Assistant - Bielefeld University  
Extracellular recordings using hook electrodes to investigate dynamic properties of a descending interneuron in the stick insect *Carausius morosus*.

Dec 2019 –  
Mar 2020

## Graduate Student Assistant - Bielefeld University

Extracellular recordings using hook electrodes to investigate proprioceptive antennal input of a descending interneuron in the stick insect *Carausius morosus*.

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### TEACHING

since 2019

#### Practical courses

**Control of Behaviour** · Master · Behaviour: From Neural Mechanisms to Evolution · Bielefeld University

**Verhalten/Neuronale Mechanismen** · Bachelor · Biology · Bielefeld University

**Integrative Verhaltensbiologie II** · Bachelor · Biology · University of Würzburg  
Topic: Optomotor Response of fixed walking bumblebees

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### CONFERENCE CONTRIBUTIONS

2023

#### 15<sup>th</sup> Göttingen Meeting of the German Neuroscience Society

Göttingen, Germany

Authors: Bianca **Jaske**, Keram Pfeiffer

Poster: Temperature effect on wide-field motion sensitive neurons in the central brain of bumblebees

2022

#### 114<sup>th</sup> Annual Meeting of the German Zoological Society

Bonn, Germany

Authors: Bianca **Jaske**, Keram Pfeiffer

Talk: Effect of temperature on wide-field motion sensitive neurons in the central brain of bumblebees

#### The International Conference for Neuroethology

Lisbon, Portugal

Authors: Bianca **Jaske**, Keram Pfeiffer

Talk: Characterization of wide-field motion sensitive neurons in the bumblebee

#### 31<sup>st</sup> Neurobiological Doctoral Students Workshop

Cologne, Germany

Authors: Bianca **Jaske**, Keram Pfeiffer

Talk: Characterization of wide-field motion sensitive neurons in the bumblebee

2021

#### 113<sup>th</sup> Annual Meeting of the German Zoological Society

Virtual Meeting

Authors: Bianca **Jaske**, Keram Pfeiffer

Poster: Tuning properties of wide-field motion sensitive neurons in the bumblebee

## 14<sup>th</sup> Göttingen Meeting of the German Neuroscience Society

Virtual Meeting

Authors: Bianca **Jaske**, Gaetan Lepreux, Volker Dürr

Poster: Input of hair field afferents to an identified descending interneuron in the stick insect

2019

## Neuroethology Sattelite Symposium

### 112<sup>th</sup> Annual Meeting of the German Zoological Society

Jena, Germany

Authors: Bianca **Jaske**, Gaetan Lepreux, Volker Dürr

Talk: Proprioceptive input to a descending interneuron in the stick insect

*Carausium morosus*

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## GRANTS

2023

Travel Grant from GNS (German Neuroscience Society)

to attend NWG 2023 · Göttingen · Germany

2022

Travel Grant from DAAD (German Academic Exchange Service)

to attend ICN 2022 · Lisbon · Portugal

Travel Fellowship from GSLS (Graduate School of Life Sciences, University of Würzburg)

- to attend DZG 2022 · Bonn · Germany
- to attend the Sensory ecology course 2022 · Lund · Sweden

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## PUBLICATIONS

2021

Input of hair field afferents to a descending interneuron

Authors: Bianca **Jaske**, Gaetan Lepreux, Volker Dürr

Journal of Neurophysiology

doi: 10.1152/jn.00169.2021

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## MEMBERSHIPS

since 2022

Member of the International Society for Neuroethology (ISN)

Member of the German Neuroscience Society (GNS)

April 24, 2023