

# JESSE GRANGER

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## EDUCATION

**Ph.D. Biology, Minor in Biostatistics**, Duke University, 2018-Present  
*Thesis: Behavioral and Geophysical Factors Influencing Success in Long Distance Navigation*  
*Advisor: Sönke Johnsen; NDSEG Fellow*

**Certificate in College Teaching**, Duke University (Anticipated) 2023

**B.S. Biophysics, Minor in Mathematics**, William & Mary, 2014-2018  
*Honors, Summa Cum Laude*

## FELLOWSHIPS / ACADEMIC HONORS

**Bass Instructional Fellowship (Declined)** 2023  
\$15,000 + Tuition, *Duke University*

**Data Expedition** 2021 & 2022  
\$2,500 (Earned Twice), *Duke University*

**International Research Experiences for Students** 2022  
\$5,000 + Travel Expenses, *National Science Foundation / Brunei Darussalam*

**National Defense Science & Engineering Graduate Fellowship** 2020-2024  
\$125,000 + Tuition, *Department of Defense*

**Graduate Research Fellowship (Declined)** 2020  
\$102,000 + Tuition, *National Science Foundation*

**Grant-In-Aid of Research** 2020  
\$1,000, *Society for Integrative & Comparative Biology*

**Teaching Assistant Award—Honorable Mention** 2020  
*Duke University*

**Biology Department Grant-in-Aid** 2019, 2020,  
\$1,000 (Earned Four Times), *Duke University* 2021 & 2022

**Summer Research Fellowship** 2019  
\$5,500, *Duke University*

**Phi Beta Kappa** Inducted 2017  
*William & Mary*

**Honors Fellowship** 2017 – 2018  
\$4,000, *William & Mary*

**Dewilde Physics Fellowship** 2017  
\$1,000 *William & Mary*

**Sharpe Scholar Seminar Fellowship** 2015 – 2016  
\$3,000, *William & Mary*

**Dean's List** 2014 – 2018  
*William & Mary*

**Nonfiction Literary Awards—Honorable Mention** 2016  
*William & Mary*

## **PEER REVIEWED PUBLICATIONS**

- **Granger, J.** Johnsen, S. (2022), Collective movement as a solution to noisy navigation and its vulnerability to population loss. [\*Proceedings of the Royal Society B\*](#). **289**: 20221910
- **Granger, J.** Cummer, S. A., Johnsen, S. (2022), Environmental sources of radio frequency noise: potential impacts on magnetoreception. [\*Journal of Comparative Physiology A\*](#). **208**: 83-95
- Taylor, B. Lohmann, K. Havens, L. Lohmann, C. **Granger, J.** (2021), Long-distance trans equatorial navigation using sequential measurements of magnetic inclination angle, [\*Journal of the Royal Society Interface\*](#). **18**: 20200887
- **Granger, J.** Walkowicz, L. Fitak, R. Johnsen, S. (2020), Gray whales strand more often on days with increased levels of atmospheric radio frequency noise, [\*Current Biology\*](#). **30**: R155-R156
- **Granger, J.** (2018), Diatomaceous Solar Cells, [\*William & Mary Undergraduate Honors Theses\*](#). Paper 1215

## **OTHER PUBLICATIONS**

- **Granger, J.** (2017), Saving the Monarch or Saving the Village, [\*Pulitzer Center on International Crises Reporting\*](#)
- **Granger, J.** (2017), Bumping Elbows, [\*Virginia Sea Grant\*](#)
- **Granger, J.** (2016), Parks on the Rise but the Land is Sinking, [\*Virginia Sea Grant\*](#)
- **Granger, J.** (2016), Working Today for a Better Tomorrow, [\*Virginia Sea Grant\*](#)

## **PRESENTATIONS**

- **Conference Talk:** “Collective Movement as a Solution to Noisy Navigation and its Vulnerability to Population Loss,” *Society for Integrative & Comparative Biology (SICB)*, Austin TX, January 2023
- **Conference Talk (Undergraduate Mentee):** “Collective Navigation by Talitrid Amphipods,” Magdalena Phillips et.al, *Society for Integrative & Comparative Biology (SICB)*, Austin TX, January 2023
- **Conference Poster,** “Collective Movement as a Solution to Noisy Navigation and its Vulnerability to Population Loss,” *Regional SICB, Duke University*, November 2022
- **Workshop Poster:** “Collective Movement as a Solution to Noisy Navigation and its Vulnerability to Population Loss,” *Sensory Ecology Course, Lund University*, September 2022
- **Conference Talk:** “Navigation in a Group,” *Society for Integrative & Comparative Biology, Phoenix AZ*, January 2022
- **Conference Talk:** “Magnetoreception and Radio-Frequency Noise,” *Society for Integrative & Comparative Biology, Virtual*, January 2021
- **Conference Talk:** “Gray Whales Strand More Often on Days with Increased Levels of Atmospheric Radio Frequency Noise,” *Society for Integrative & Comparative Biology, Austin TX*, January 2020

## **TEACHING EXPERIENCE**

<b>Instructor of Record</b> , Data Analysis for Biologists (Awarded) <i>Duke University, Biology</i>	Spring 2024
<b>Invited Guest Lecturer</b> , Circular Statistics using R Studio and Isopods <i>Duke University, Biology</i>	Fall 2022 & Fall 2021
<b>Invited Guest Lecturer</b> , Scaling in R: Isometry vs Allometry <i>Duke University, Biology</i>	Fall 2020
<b>Teaching Assistant</b> , Mammalogy <i>Duke University, Biology</i>	Spring 2020

<b>Teaching Assistant, Entomology</b> <i>Duke University, Biology</i>	Fall 2019
<b>Invited Guest Speaker, Terrestrial Electoreception,</b> <i>Triangle Science Share, Durham NC</i>	Spring 2019

### **MENTORSHIP EXPERIENCE**

<b>Magdalena Phillips</b> , Undergraduate, Honor's Thesis	2019 - 2023
<b>Horace Gao</b> , Undergraduate	2022-2023
<b>Sophie Cox</b> , Undergraduate	2022
<b>Ashley Huang</b> , Undergraduate	2022
<b>Maanvi Chawla</b> , Undergraduate	2022
<b>Wyatt Pfau</b> , Undergraduate	2022-2023
<b>Muaz Kashif</b> , Undergraduate	2021-2022
<b>Ruohan (Ada) Zhang</b> , Undergraduate	2021-2022
<b>Veda Sanhai</b> , High School Student	2020-2021
<b>Nick Kaney</b> , Undergraduate	2019
<b>Pranav Charvu</b> , High School Student	2019

### **PROFESSIONAL AND PUBLIC SERVICE**

<b>Committee Member—Faculty Hiring Committee, 60+Hrs</b> <i>Biological Sciences, Duke University</i>	2022-2023
<b>Founder &amp; Organizer—International Seminar Series on Animal Navigation</b> <i>U. of North Carolina at Chapel Hill; Duke U.; Florida State U.; Lund U., Texas A&amp;M</i>	2021-Present
<b>Committee Member—Graduate Admissions &amp; Advisory Committee, 20+Hrs</b> <i>Biological Sciences, Duke University</i>	2022-2023
<b>Committee Leader—Graduate Recruitment, 300+Hrs</b> <i>Biological Sciences, Duke University</i>	2019-2023
<b>Founder &amp; Organizer—Multi-Institutional Seminar Series on Physical Biology</b> <i>U. of North Carolina at Chapel Hill; Duke University</i>	2019-2020
<b>Group Fitness Instructor—Yoga and Kickboxing</b> <i>Recreational and Physical Wellness, Duke University</i>	2019-Present
<i>Campus Health and Wellness, William &amp; Mary</i>	2016-2018

### **MEDIA COVERAGE**

[Science Friday](#) • [The Atlantic](#) • [National Geographic](#) • [New York Times](#) • Feat. in [An Immense World](#), Ed Yong