

Deborah Ho, M.S.

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Research Interests

Ecology, Evolution, Neuroethology, Development, Biopsychology, Behavior

Education

Emory University, Atlanta, GA

Aug 2022-Present

Ph.D. Psychology

- Behavioral and Systems Neuroscience concentration
- Ph.D. Advisor: Dr. Aubrey Kelly

University of Michigan, Ann Arbor, MI

May 2022

M.S. Psychology

- Biopsychology area
- GPA: 4.0
- Completed a thesis as part of the Accelerated Masters Degree Program (AMDP) requirements
 - Thesis: *Does maternal care induce adaptive plasticity effects on offspring behavioral traits in wild North American red squirrels (*Tamiasciurus hudsonicus*)?*
 - Mentor: Dr. Ben Dantzer

University of Michigan, Ann Arbor, MI

May 2021

B.S. Psychology (High Honors) | B.S. Neuroscience

- GPA: 3.501
- Completed an Honors thesis in Psychology which was awarded the designation of High Honors
 - Thesis: [Developing a Data Analysis Pipeline for Novel Bio-logging Tools](#)
 - Mentor: Dr. Matt Gaidica

- University Honors (Fall 2020, Winter 2021)
 - Awarded for attaining a term GPA of 3.5 or higher while taking a minimum of 14 credit hours with at least 12 credit hours elected for a letter grade
- James B. Angell Scholar (Fall 2020, Winter 2021)
 - Awarded for earning all A's (A+, A, A-) for at least 2 consecutive semesters while taking a minimum of 14 credit hours with at least 12 credit hours elected for a letter grade

Research Experience

Dantzer Lab, Ann Arbor, MI
Research Assistant

Jan 2020-May 2022

PI: Dr. Ben Dantzer | Mentors: Dr. Matt Gaidica & Dr. Ben Dantzer

- Developed lab and research skills while supporting Dr. Gaidica's project developing custom bio-logger devices
- Spearheaded the development of a custom-made, 3D-printed peanut dispenser
- Assisted with Dr. Dantzer's research on the effects of maternal stress and care on offspring in North American red squirrels as part of the Kluane Red Squirrel Project from May 2021 to May 2022
- Contributed to refining and improving behavioral observation protocol
- Mentored new lab members on behavioral scoring protocol

Teaching

PSYCH 111 Intro to Psychology, University of Michigan
Graduate Student Instructor

Winter 2022

Work Experience

Tembusu Healthcare Pte Ltd, Singapore

May 2021-Aug 2021

Laboratory Executive

- Scoped out a project for setting up an incubation lab, which included project scope, costing, and timelines
- Consulted with various partners, vendors, and suppliers of services to obtain quotations and details for the project
- Conducted relevant industry research to facilitate the planning of the project
- Assisted in operational activities, including creating purchase orders, invoices, and goods receipts
- Assisted in monthly sales forecasting and procurement of products
- Liaised with the company's key partners in Hong Kong and the Philippines, and the product distributor in Spain

Skills

Technical

- Proficient
 - Adobe Lightroom
 - Adobe Photoshop
 - Behavioral Observation Research Interactive Software (BORIS)
 - R
- Intermediate
 - Python
 - Adobe Illustrator
 - Adobe Premiere
 - MATLAB
 - C++

- Basic/Novice
 - Swift
 - HTML and CSS
 - [Git/GitHub](#)
 - SQL

Language

- English, Native Proficiency
- Chinese (Mandarin), Proficient

Others

- Competitive swimming
- Photography
- Basic lifesaving
- Basic climbing
- Violin, ABRSM Grade 6 Examination, 2009
- Music Theory, ABRSM Grade 5 Examination, 2008

Publications

Gaidica, M., **Ho, D.**, Dantzer, B., 2021. Evolutionary Trade-offs of the Squirrel's 'Super Sleeper' Phenotype. *Presented virtually at SICB 2022.*

Ho, D., Gaidica, M. and Dantzer, B., 2021. Developing a data analysis pipeline for novel bio-logging tools. [online] Available at: <http://deepblue.lib.umich.edu/bitstream/2027.42/169389/1/debho.pdf>>. *University of Michigan Deep Blue.*

Presentations

Society for Integrative and Comparative Biology Annual Meeting, Phoenix, AZ Jan 2022

Attendee (Virtual)

- Received SICB 2022 Broadening Participation (BP) Professional Development Award

University of Michigan Virtual Psychology Undergraduate Research Forum, Ann Arbor, MI (Virtual) Apr 2021

Presenter

Memberships

The Society for Integrative & Comparative Biology (SICB) Nov 2021-Present
Student Member

Singapore Students' Association, University of Michigan Sep 2018-Apr 2022
Treasurer for 2019-2020

- Reached out to alumni for funding for various events
- Kept track of the association's fund balance

MENSA Society 2004-Present

Sports

University of Michigan Women's Swim & Dive

2018-2019

Division 1 Athlete | Breaststroker

- Developed time management skills by having to balance both academic and athletic commitments
- Developed teamwork skills by working together and challenging teammates to achieve team and individual goals
- Ended due to a career-ending knee injury which required an operation and 8-month rehabilitation

National University of Singapore Swim Team

2017-2018

Member

- Contributed to the team winning the championship title at the 2018 Institute-Varsity-Polytechnic Games, clinching seven gold medals in record time
- Contributed to the team winning the championship title at the 2017 Singapore University Games, winning four gold medals in record time

National Representation in Swimming

2011-2019

Represented Singapore at various international meets

Test Scores

GRE

Jul 2020

- Verbal: 163, 92nd percentile
- Quantitative: 167, 89th percentile
- Analytical Writing: 5, 92nd percentile

References

Dr. Ben Dantzer

Associate Professor

University of Michigan

Department of Psychology, Department of Ecology and Evolutionary Biology

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Dr. Matt Gaidica

Postdoctoral Fellow

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Dr. Shelly Schreier

Lecturer IV

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