

DANI FREUND

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EDUCATION

2021 - Present **University of Minnesota, MN, USA**

Masters of Wildlife Ecology and Management, current GPA: 4.0

- Proposed Thesis: *Do wolves stress beavers out? Quantifying hormonal response to a seasonal predator*
- Classes taken in first year include Habitats and Regulation of Wildlife, Biometry, Analysis of Populations, Spatial and Temporal Analysis of Ecological Data, Remote Sensing and Geospatial Analysis of Natural Resources and the Environment, and Science Communication

2014 - 2018 **Trinity University, San Antonio, TX, USA**

Bachelor of Science in Biology, *Summa Cum Laude*, GPA: 3.92

- Senior Honors Thesis: *The effect of exogenous testosterone on dominance and status signaling in the female American goldfinch (Spinus tristus)*; Advised by Professor Troy G. Murphy

2016 **Study Abroad: School for Field Studies in Cambodia and Vietnam**

- Five-month field based course in Cambodia and Vietnam: *Conservation, Ethics and Environmental Change*

RESEARCH EXPERIENCE

2021 - Present **Voyageurs Wolf Project Collaborator**

Voyageurs Wolf Project, Voyageurs National Park, MN, USA

- Lead, train, and assist field technicians in daily field work, data entry, and analysis
- Organize data sets for future analysis
- Build resources for techs to streamline data entry and minimize data entry errors
- Check data entry for errors

2020 - 2021 **Wolf Field Technician**

Voyageurs Wolf Project, Voyageurs National Park, MN, USA

- Live wolf capture and immobilization including foot trapping, administration of sedatives and reversals, GPS collaring, ear tagging, drawing blood and assessing condition
- Track and search GPS clusters to determine locations of kill sites, beaver hunting attempts, den sites, rendezvous sites and wolf beds
- Set up and operate remote camera trap stations as well as manage images collected to understand wolf summer ecology
- Estimate ungulate abundance via pellet count analysis
- Carry out necropsies of expired wolves to collect samples and determine cause of death

2017 - 2018 **Field and Laboratory Ornithological Research for Undergraduate Honors Thesis**

Trinity University, Department of Biology, San Antonio, TX, USA

Western University, Department of Biology, London, Ontario, Canada

- Assessed behavioral dominance, administered hormonal injections and quantified blood hormone levels
- Managed field research team and taught field and laboratory techniques and skills required for experiment

- 2016/2017 **Summer Field Research Assistant to Professor Troy G. Murphy and Scott MacDougall-Shackleton**
Queen's University Biological Field Station (QUBS), Elgin, Ontario, Canada
- Investigated the effect of previous wins on future potential dominance and its influence on dynamic status signaling and aggression in female American Goldfinches
- 2015 - 2017 **Laboratory and Field Research Assistant**
Trinity University Department of Biology, San Antonio, TX, USA
- Investigated the role of status signaling on behavioral dominance interactions
 - Developed and utilized radio tags for bird tracking and visually tracked black crested titmouse families
- 2016 **Ichthyology Research on the Tonle Sap Lake**
School for Field Studies, Tonle Sap, Cambodia
- Conducted the first recorded research on the catfish *Mystus multiradiatus*, investigating their annual reproductive cycle using dissections and fecundity analysis
- 2016 **Social Research on the Mekong River**
School for Field Studies, Siem Reap, Cambodia
- Developed social survey and interviewed local community members about the social and societal impacts of damming on villages surrounding the Mekong river in Cambodia.

PROFESSIONAL EXPERIENCE

- 2019 - 2020 **International Water Management Institute Princeton in Asia Fellow**
Kathmandu, Nepal
- Built communications outputs including research summaries, reports, blogs, photos, and videos for the project *A gender perspective to understand and enhance the functionality of water supply systems: lessons from Nepal*
- 2018 - 2019 **WWF Greater Mekong Princeton in Asia Fellow**
Hanoi, Vietnam & Bangkok, Thailand & Vientiane, Laos
- Created communications content to promote environmental initiatives in the region and worked to build relationships between regional and country offices
 - Re-branded the *Dawna Tenasserim Landscape*, designed yearly report to promote rebranding for the landscape, and organized launch event at the Bangkok Arts and Culture Center that brought together scientists and artists to promote the landscape
 - Created infographics to visualize complex information for an EU Grant: *Support to Civil Society in combating wildlife trafficking and forest crime in the Greater Mekong Region, Malaysia and the People's Republic of China*
- 2019 **Foreign Correspondents Club of Thailand Communications Advisor**
Bangkok, Thailand
- Assisted experts and specialists on scientific outreach and presentations
 - Organized and ran *Navigating a new course for the mighty rivers of Southeast Asia* panel about threats rivers in SE Asia are facing, and potential solutions
 - Managed website, social media and newsletters to increase outreach and dissemination of information

PUBLICATIONS

Peer Reviewed

Bump, J. et al., *Predator personalities alter ecosystem services*, Frontiers in Ecology and the Environment, Accepted for 2022 publication

Freund, D. et al., *Gone Fishing: A more common prey for wolves than originally thought?* In Preparation

Popular Press

2017 *Annual New Species Report*, WWF Greater Mekong

Impacts from Sambor and Stung Treng Dams in Vietnam Brief, WWF Vietnam

TEACHING AND COACHING EXPERIENCE

- 2018 **Ecology and Evolution Teacher's Assistant**
Trinity University, Department of Biology, San Antonio, TX
Assisted students with field biology techniques, held office hours, gave lecture overview about GIS and GPS use and theory
- 2017 **Laboratory Teaching Assistant**
Trinity University, Department of Biology, San Antonio, TX
Provided guidance in and outside of a laboratory class and worked closely with a biology professor to set up the laboratory and ensure the experiments ran smoothly
- 2018 **Environmental Science Tutor**
Hanoi, Vietnam
Reviewed AP Environmental Science material in one-on-one setting, preparing students for tests and advising them on research projects and essays
- 2014-2018 **Assistant Dive Coach under Stan Randall and Olympic medalist Kelly McCormick**
Trinity University, San Antonio, TX, USA & Washington State, USA
Developed strength building plan for Trinity University varsity dive team and team building activities for summer club program

GRANTS

- 2021 **National Science Foundation Graduate Research Fellowship Program (NSF GRFP)**
Five-year fellowship awarded to outstanding graduate students. Three years of financial support including an annual stipend of \$34,000 and a cost of education allowance of \$12,000 to the institution.
- 2017 **Mach Fellowship**
\$2,500 awarded to rising seniors for use in research during their senior year
- 2016 **Biology Student Undergraduate Research Fellowship (BSURF)**
\$4,000 awarded to Biology majors pursuing summer research with Biology faculty
- 2015 **Murchison Research Fellowship**
\$6,000 awarded to students in any department conducting research with a faculty team

ACADEMIC AWARDS

- 2020 **National Science Foundation Graduate Research Fellowship Honorable Mention**
All reviews rated as “excellent” and “very good”
- 2018 **Senior Honors Thesis Award**
Department of Biology, Trinity University
- 2018 **Trinity University Outstanding Senior Biology Student**
Awarded to one senior majoring in Biology on the basis of professor nomination, academic standing, research experience and extracurriculars
- 2018 **Phi Beta Kappa Member**
Inducted on the basis of academic excellence in liberal arts and sciences, foreign language and mathematics
- 2017 **Trinity University Scholar**
Awarded to students with the top 15 GPAs in their class each fall semester
- 2016 **Omicron Delta Kappa National Leadership Honor Society**
Inducted on the basis of exceptional scholarship, as well as leadership in extracurricular activities and service
- 2014 - 2018 **Trinity University Dean’s List**
- 2014 - 2017 **Baker Duncan Fine Arts Scholarship Recipient**
Department of Fine Arts Awarded to studio art majors at Trinity University who show exceptional potential
- 2015 **NCAA Academic All American Springboard Diver**
Athletes who place in the top five at NCAA Nationals and have a GPA over 3.30
- 2016 **NCAA Honorable Academic All American Athlete**
Athletes who place in the top ten at NCAA Nationals and have a GPA over 3.30

PRESENTATIONS

- 2021 ***Life as an early career conservation biologist***
Guest presentation at an undergraduate Wildlife Conservation course, *Macalester University, MN, USA*
- 2018 ***The effect of exogenous testosterone on dominance and status signaling in the female American goldfinch (Spinus tristus)***
Poster presentation at the Society for Integrative and Comparative Biology Annual Conference, *San Francisco, CA, USA*
Oral presentation at the Trinity University Senior Seminar, *San Antonio, TX, USA*

- 2016 ***Reproductive strategies of a tropical catfish, *Mystus multiradiatus*: Assessing novel breeding systems in a data deficient habitat***
Poster presentation at the School for Field Studies Cambodia end of the year research seminar, *Wat Bo Temple, Siem Reap, Cambodia*
- 2017 ***Bill Coloration in the Female American Goldfinch***
Informational Poster presentation at Queen's University Biological Station (QUBS) Donor Day, *Elgin, Ontario, Canada*
- 2015 ***Baker Duncan Fine Arts Exhibition***
Portfolio presentation at Trinity University Alumni Day, *Trinity University, Department of Art, San Antonio, TX, USA*

ACTIVITIES, LEADERSHIP AND COMMUNITY SERVICE

- 2014 - 2017 Varsity Springboard Diving Team - *Member, San Antonio, TX, USA*
- 2018 Boys and Girls Club - *Mentor, San Antonio, TX, USA*
- 2017 - 2018 Biology Club - *Treasurer, San Antonio, TX, USA*
- 2017 Innercity after school program - *Assistant, San Antonio, TX, USA*
- 2017 San Antonio Children's Center - *Volunteer, San Antonio, TX, USA*

PERSONAL

TECHNICAL SKILLS

R Studio | ArcGIS | Live predator capture and immobilization | Navigation of rugged terrain with GPS, compass and/or google earth | Camera trapping | Pellet counts | Animal track identification | Recording field notes | ELISA assay | Adobe suite | Digital photography | Microsoft office | Boat driving

INTERESTS AND HOBBIES

Painting | Snow Skiing | Flute | Rock Climbing