

# BRANDON ANDRÉ GÜELL

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## PERSONAL

Birth Date: May 6, 1994  
Languages: English, Spanish  
Citizenships: United States, Costa Rica

## DECLARACIÓN PROFESIONAL

Tengo un profundo interés en la historia natural, la ecología y el comportamiento animal. Creo que la biología de campo integradora y las observaciones de historia natural son fundamentales para desarrollar investigaciones basadas en hipótesis que amplíen nuestra comprensión de la biodiversidad en nuestro mundo natural. Creo que la fotografía juega un papel clave en la comunicación de la ciencia y la conservación.

## EDUCACIÓN

Boston University	<i>Boston, MA</i>
<b>Ph.D.</b> in Biology	2023
<b>M.S.</b> in Biology	2020
<i>“Explosive breeding and its consequences for critical adult and embryo behaviors in gliding treefrogs”</i>	
University of California San Diego	<i>San Diego, CA</i>
<b>B.S.</b> in Ecology, Behavior, & Evolution, <i>Minor in Chemistry</i>	2016
<i>“Determining northern fur seal pup weaning with stable isotope and stomach content analyses”</i>	

## FELLOWSHIPS

» Short Term Graduate Research Abroad Fellowship, Boston University ( <b>\$6,000</b> )	2020
» Graduate Research Fellowship, National Science Foundation, DGE-1247312 ( <b>\$138,000</b> )	2017–2022
» Teaching Fellowship (x5), Boston University ( <b>\$11,000</b> )	2018–2021
» Dean’s Fellowship, Boston University ( <b>\$11,000</b> )	2017
» Research Experience for Undergraduates at STRI, National Science Foundation ( <b>\$5,000</b> )	2015

## FONDOS DE INVESTIGACIÓN

» Belamarich Writing Award, Boston University ( <b>\$3000</b> )	2023
» Graduate Student Organization Research Grant, Boston University ( <b>\$500</b> )	2021
<i>Phenology of explosive breeding and its environmental triggers in gliding treefrogs</i>	
» Thomas H. Kunz Fund, Boston University ( <b>\$6,000</b> )	2021
» Grants-in-Aid of Research, Sigma Xi, G201903157935086 ( <b>\$500</b> )	
<i>Treefrog egg-clutch biomechanics and their effect on embryo escape-hatching behavior</i>	
» Grants-in-Aid of Research, Sigma Xi, G2018031596022314 ( <b>\$900</b> )	2018
<i>Evolution of embryo behavior: heterochrony of cued hatching mechanisms</i>	
» Ledell Family Undergraduate Research Scholarship, UC San Diego ( <b>\$4,000</b> )	2014
<i>The impact of temperature and predators on CO<sub>2</sub> flux from mountain lakes</i>	

## FONDOS DE VIAJE

» Biology Travel Award, Boston University ( <b>\$500</b> )	2022
» Charlotte Mangum Student Support Scholarship, SICB ( <b>\$150</b> )	2020
» Biology Travel Award, Boston University ( <b>\$200</b> )	2020
» Graduate Student Organization Conference Travel Grant, Boston University ( <b>\$500</b> )	2019
» Charlotte Mangum Student Support Scholarship, SICB ( <b>\$150</b> )	2018

- » Biology Travel Award, Boston University (**\$300**) 2018
- » Charlotte Mangum Student Support Scholarship, SICB (**\$200**) 2017
- » Student Travel Award, Western Society of Naturalists (**\$300**) 2016
- » Research Experience for Undergraduates Travel Scholarship, BIO-OCE (**\$1000**) 2016

## FOTOGRAFÍA

- » **Highly Commended**, Natural History Museum's [58<sup>th</sup> Wildlife Photographer of the Year](#) 2022
- » **Honorable Mention**, National Wildlife Federation [Photo Contest](#) (*Other Wildlife Category*) 2022
- » **Winner**, AIBS Faces of Biology [Photo Contest](#) 2022
- » **Winner**, Boston University [Research Photo Contest](#) (*Field Research Category*) 2022
- » **Best in Category**, BMC Ecology and Evolution [Image Competition](#) (*Life Close Up Category*) 2022
- » **Runner-up**, BMC Ecology and Evolution [Image Competition](#) (*Research in Action Category*) 2022
- » **Winner**, Osa Conservation's [RidgetoReef Photography Contest](#) (*Amateur Category - Land*) 2022
- » **Finalist**, Australia Zoo's Crikey! Magazine [Photography Competition](#) 2020
- » **Second Place**, AIBS Faces of Biology [Photo Contest](#) 2019
- » **Runner-up**, BBC Wildlife Magazine [Your Photos Competition](#) (*October issue*) 2019
- » **Honorable Mention**, National Wildlife Federation [Photo Contest](#) (*Top 40 of over 23,000*) 2019
- » **Runner-up**, BBC Wildlife Magazine [Your Photos Competition](#) (*May issue*) 2019
- » **Winner**, Boston University [Biologically Beautiful Photo Contest](#) 2018

## PUBLICACIONES CIENTÍFICAS (intern/undergrad co-authors<sup>u</sup>)

16. Jung J, Güell BA, Warkentin KM (*in prep*) Temperature-induced heterokairy in vestibular system development matches changes in the onset of mechanosensory-cued hatching in red-eyed treefrogs.
15. Güell BA, Aichelman H, Davies, SW, Warkentin KM (*in prep*) Alternative reproductive tactics in male gliding treefrogs: nonamplexed males increase reproductive success using sneaking and post-mating clutch piracy.
14. Güell BA, Warkentin KM (*near-final manuscript for **Behavioral Ecology and Sociobiology***) To hatch and hatch not: does heterochrony in vestibular mechanosensing explain species differences in escape-hatching success of *Agalychnis* embryos in snake attacks.
13. Güell BA, McDaniel JG, Warkentin KM (*near-final manuscript for **Integrative Organismal Biology***) Egg-clutch biomechanics affect escape-hatching behavior and performance.
12. Güell BA, Warkentin KM (*in review **Behavioral Ecology***) Phenology and environmental predictors of explosive breeding in gliding treefrogs: a boosted regression tree analysis.
11. Gomez EK<sup>u</sup>, Chaiyasarikul A<sup>u</sup>, Güell BA, Warkentin KM (2023) Developmental changes in red-eyed treefrog embryo behavior increase escape-hatching success in wasp attacks. *Behavioral Ecology and Sociobiology* 77, 52. [Full text](#)
10. Barrio-Amorós CL, Güell BA, (2023) The Central American milk frog *Trachycephalus "vermiculatus"* (Anura, Hylidae); observations of explosive breeding activity and a novel release call. *Reptiles & Amphibians* 30(1), e18452. [Full text](#)
9. Güell BA, Rose F<sup>u</sup>, Bordne CM (2022) Facultative parthenogenesis in a captive Tarahumara mountain boa (*Boa sigma*). *Reptiles & Amphibians* 29(1), 411-412. [Full text](#)
8. Güell BA, Jung J, Almanzar A<sup>u</sup>, Diaz JC<sup>u</sup>, Warkentin KM (2022) Ontogeny of risk assessment and escape-hatching performance by red-eyed treefrog embryos in two threat contexts. *Journal of Experimental Biology*, 225(20): jeb244533. [Full text](#)
7. González K<sup>u</sup>, Warkentin KM, Güell BA (2021) Dehydration-induced mortality and premature hatching in gliding treefrogs with even small reductions in humidity. *Ichthyology and Herpetology*, 109(1), 21-30. [Full text](#)
  - » Awarded 2021 Best Paper (Herpetology) in *Ichthyology and Herpetology*

6. Gomez EK<sup>u</sup>, Warkentin KM, **Güell BA** (2021) Egg-kicking behaviour by male gliding treefrogs (*Agalychnis spurrelli* Boulenger, 1913) does not dislodge competitors' eggs. *Herpetology Notes*, 14, 157-161. [Full text](#)
5. **Güell BA**, Sánchez M, Gallo S, Garro D, Paniagua D, Barrio-Amorós C (2021) Multiple observations of atypical coloration in Central American *Agalychnis* treefrogs (Anura: Phyllomedusidae). *Herpetology Notes*, 14, 151-155. [Full text](#)
4. **Güell BA**, González K<sup>u</sup>, Pedroso-Santos F (2019) Opportunistic predation by two aquatic-feeding predators on an explosive-breeding aggregation of arboreal gliding treefrogs (*Agalychnis spurrelli* Boulenger, 1913; Anura: Phyllomedusidae) on the Osa Peninsula of Costa Rica. *Herpetology Notes*, 12, 795-798. [Full text](#)
3. **Güell BA**, González K<sup>u</sup> (2019) Mating mayhem. *Frontiers in Ecology and the Environment*, 17(2), 128-128. [Full text](#)
2. **Güell BA**, Warkentin KM (2018) When and where to hatch? Red-eyed treefrog embryos use light cues in two contexts. *PeerJ*, 6:e6018. [Full text](#)
1. Warkentin KM, Diaz JC<sup>Ω</sup>, **Güell BA**, Jung J, Kim SJ, Cohen KL (2017) Developmental onset of escape hatching responses in red-eyed treefrogs depend on cue type. *Animal Behaviour*, 129, 103–112. [Full text](#)  
 » [Audio Slides | Diapositivas de Audio](#)

## PRESENTACIONES EN CONGRESOS (intern/undergrad co-authors<sup>u</sup>)

### ORAL:

11. Zeppelin TK, Brost B, Johnson D, Kurle CM, **Güell BA**, Kelleher C, Williams M, York AE (2023) Determining cryptic life history milestones using isotopic markers in northern fur seal (*Callorhinus ursinus*) vibrissae. Alaska Marine Science Symposium, Anchorage, AK
10. **Güell BA**, Warkentin KM (2022) Comportamientos reproductivos, fenología y los desencadenantes ambientales de los eventos de reproducción explosiva de la rana planeadora, *Agalychnis spurrelli*. Congreso Colombiano de Herpetología\*, Cali, Colombia.
9. Gomez, EK<sup>u</sup>, **Güell BA**, Warkentin KM (2021) Developmental changes in red-eyed treefrog embryo behavior increase escape success in wasp attacks. Animal Behavior Society Meeting. Pre-recorded 8-minute talk, *virtual meeting*. [Presentation](#)
8. **Güell BA**, Gomez EK<sup>u</sup>, Warkentin KM (2021) Gliding treefrog reproduction: Possible functions of diverse male behavior in terrestrial breeding aggregations. Society for Integrative and Comparative Biology Meeting. Pre-recorded 6-minute talk, *virtual meeting*. [Presentation](#)
7. **Güell BA**, Warkentin KM (2020) Gliding treefrog reproductive behavior: Possible alternative male tactics in a terrestrial breeder. Animal Behavior Society Meeting. Pre-recorded 3-minute talk, *virtual meeting*. [Presentation](#)
6. Gomez, EK<sup>u</sup>, **Güell BA**, Warkentin KM (2020) Gliding treefrog reproductive behavior: “Egg scraping” by males does not dislodge competitors' eggs. Animal Behavior Society Meeting. Pre-recorded 3-minute talk, *virtual meeting*. [Presentation](#)
5. **Güell BA**, Caldwell MS, Warkentin KM (2020) Treefrog egg-clutch biomechanics and their effect on embryo escape-hatching behavior. Boston University Biology Graduate Student Symposium, Boston, MA.
4. **Güell BA**, Caldwell MS, Warkentin KM (2020) Treefrog egg-clutch biomechanics and their effect on embryo escape-hatching behavior. Society for Integrative and Comparative Biology Meeting, Austin, TX.
3. Zeppelin TK, Brost BM, Kelleher C, **Güell BA**, Ream RR, Kurle CM (2020) Using stable isotope analysis of vibrissae from northern fur seal pups and juveniles to establish individual foraging and migratory patterns. Alaska Marine Science Symposium, Anchorage, AK.
2. Warkentin KM, Cohen KL, Diaz JC, **Güell BA**, Jung J (2016) Development of embryo behavior: hatching mechanisms, performance, and decisions in red-eyed treefrogs. Society for Integrative and Comparative Biology Meeting, Portland, OR.

1. **Güell BA**, Warkentin KM (2015) Embryo behavior and hatching performance in red-eyed treefrogs. Smithsonian Tropical Research Institute Intern Symposium, Panama City, Panama.

## PÓSTER:

9. Medina SF<sup>u</sup>, **Güell BA**, Soroca S, Huzar A, Hughes A, Warkentin KM, Davies SW (2022) Testing the function of unusual male behaviors in male *Agalychnis spurrelli*. GROW/RISE Boston University Symposium, Boston, MA.

8. González K<sup>u</sup>, Warkentin KM, **Güell BA** (2020) Minimal dehydration induces premature hatching and affects hatchling size in gliding treefrogs. Society for Integrative and Comparative Biology Meeting, Austin, TX. [Poster](#)

7. **Güell BA**, Warkentin KM (2018) Does accelerated development impair predator-detection and escape-hatching of phyllomedusid treefrog embryos? Boston University Biology Graduate Student Symposium, Boston, MA.

6. Jung J, **Güell BA**, Warkentin KM (2018) Inner ear development across onset and improvement of escape-hatching ability in red-eyed treefrogs: a confocal and  $\mu$ CT analysis. Society for Integrative and Comparative Biology Meeting, San Francisco, CA. [Poster](#)

5. **Güell BA**, Warkentin KM (2018) Does accelerated development impair predator-detection and escape-hatching of phyllomedusid treefrog embryos? Society for Integrative and Comparative Biology Meeting, San Francisco, CA.

4. **Güell BA**, Kurle CM, Zeppelin TK, Ream RR (2017) Determining northern fur seal pup weaning with stable isotope and stomach content analyses. Society for Integrative and Comparative Biology Meeting, New Orleans, LA.

3. **Güell BA**, Kurle CM, Zeppelin TK, Ream RR (2016) Determining northern fur seal pup weaning with stable isotope and stomach content analyses. Western Society of Naturalists Meeting, New Monterey, CA.

2. **Güell BA**, Warkentin KM (2016) When and where to hatch: red-eyed treefrog embryos use light cues. Society for Integrative and Comparative Biology Meeting, Portland, OR.

1. Jung J, Kim SJ, **Güell BA**, Cohen KL, Warkentin KM (2016) Ontogeny of escape hatching in red-eyed treefrogs: onset of response to flooding and attack cues. Society for Integrative and Comparative Biology Meeting, Portland, OR.

## CHARLAS INVITADAS (\*en español)

### Detroit Zoo

2023

“DZS Lecture Series: Behind the Lens with Brandon Güell.” Detroit Zoological Society, Royal Oak, MI

### Detroit Zoo

2023

“Photography as a tool to study gliding treefrogs.” Guest Lecture for the Amphibian Management School, Detroit Zoological Society, Royal Oak, MI

### Boston University

2021

“From embryo to adult: A biologist’s journey into researching treefrog behavioral ecology.” Guest Speaker for BI225 Behavioral Biology, Boston, MA.

### Boston University

2020

“From embryo to adult: A biologist’s journey into researching treefrog behavioral ecology.” Guest Speaker for BI225 Behavioral Biology, Boston, MA.

### Universidad de Costa Rica\*

2019

“Comportamiento embrionario, estrategias reproductivas, y comportamientos reproductivos adaptativos de ranas arborícolas de la Península de Osa, Costa Rica.” Guest Speaker for the Laboratorio de Patología Experimental y Comparada Escuela de Biología, San Jose, Costa Rica

### Universidad Nacional de Costa Rica\*

2019

“Comportamiento embrionario, estrategias reproductivas, y comportamientos reproductivos adaptativos de ranas arborícolas de la Península de Osa, Costa Rica.” Guest Speaker for Laboratorio de Biología Tropical–Grupo de Comportamiento Animal. San Jose, Costa Rica

<b>Colegio Salisiano Don Bosco</b>	2019
“El Crocodile Hunter.” Science Fair Special Guest Inaugural Speaker and Judge. San Jose, Costa Rica.	
<b>Smithsonian Tropical Research Institute</b>	2019
“Adaptive embryo behavior, reproductive strategies, and reproductive behaviors of phyllomedusid treefrogs on Costa Rica's Osa Peninsula.” Frog Talk Series, Gamboa, Panama.	
<b>Osa Conservation Piro Biological Station*</b>	2019
“Integrative and comparative organismal biology of phyllomedusid treefrogs.” Invited Associate Researcher Seminar, Osa Peninsula, Costa Rica.	
<b>Osa Conservation Piro Biological Station*</b>	2018
“Preliminary field observations of an explosive breeding population of leaf frogs en la Peninsula de Osa, Costa Rica.” Invited Associate Researcher Seminar, Osa Peninsula, Costa Rica.	
<b>Smithsonian Tropical Research Institute</b>	2018
“Preliminary field observations of an explosive breeding population of leaf frogs en la Peninsula de Osa, Costa Rica.” Frog Talk Series, Gamboa, Panama.	

## ENSEÑANZA

### Universidad de Boston

» Teaching Fellow Peer Mentor	Spring 2021
» Teaching Fellow for <i>Vertebrate Zoology</i>	Spring 2021
» Teaching Fellow Peer Mentor	Spring 2020
» Teaching Fellow for <i>Animal Behavior</i> (hybrid class)	Fall 2020
» Teaching Fellow Peer Mentor	Fall 2020
» Teaching Fellow for <i>Vertebrate Zoology*</i>	Spring 2019
*Nominado como “Outstanding Teaching Fellow in Dept. of Biology”	
» Teaching Fellow for <i>Vertebrate Zoology</i>	Spring 2018
» Teaching Fellow for <i>Animal Behavior</i>	Fall 2018

### Universidad de California, San Diego

» Teaching Assistant for <i>Biodiversity</i>	Spring 2016
» Teaching Assistant for <i>Animal Behavior and Communication</i>	Fall 2016
» Teaching Assistant for <i>Organismic and Evolutionary Biology</i>	Fall 2016
» Teaching Assistant for <i>Human Impact on the Environment</i>	Spring 2015
» Teaching Assistant for <i>Organismic and Evolutionary Biology</i>	Winter 2015
» Teaching Assistant for <i>Organismic and Evolutionary Biology</i>	Fall 2015
» Teaching Assistant for <i>Human Impact on the Environment</i>	Spring 2014

## TUTORÍA

» <b>Nicole Gilbert</b> , current Boston University undergraduate	2021–2023
<i>BU undergraduate research assistant on “Reproductive ecology and alternative reproductive tactics of an explosive-breeding treefrog with terrestrial eggs” and “The effect of egg mass size and humidity on clutch hydration, hatching timing, and embryo survival.” Nicole is collaborating with the Davies Lab at BU to extract DNA from adult toe-pad and tadpole tissue samples to run parentage analyses. Nicole is also taking measurements of egg and tadpoles from images using ImageJ and collecting experimental data from dehydration experiments.</i>	
» <b>Fish Fisher</b> , former Boston University undergraduate	2020–2021
<i>BU UROP Intern (x2) and research assistant on “Identifying, describing, and quantifying male A. spurrelli reproductive behaviors.” Ava conducted video analyses to identify and compare rates of male A. spurrelli behaviors.</i>	
» <b>Elena Gómez</b> , now U Penn Laboratory Technician, former Boston University undergraduate	2019–2023
<i>BU BU UROP Intern (x2) and research assistant on “Evolution of embryo behavior: heterochrony of cued hatching mechanisms” and “How developmental changes in red-eyed treefrog embryo behavior increase escape-hatching success during wasp attacks.” Elena measured tadpole lengths and eye and</i>	



head angles using ImageJ. She also conducted video and data analyses of male gliding treefrog behaviors during reproduction and of red-eyed treefrog embryo behavior in wasp attacks. She presented her work at the 2020 ABS meeting; we have two published papers together, and we are collaborating on additional manuscripts for publication.

— Awarded Outstanding Student Researcher Award in 2020

— Awarded Outstanding Senior Undergraduate Research Award in Biology in 2021

- » **Katherine González**, now Purdue University PhD student, former UNA\* undergraduate 2018–2019  
Costa Rican, \*Universidad Nacional, Costa Rica graduate, field assistant, and intern (3.5 months at remote field site on Costa Rica's Osa Peninsula) on “Evolution of embryo behavior: heterochrony of cued hatching mechanisms” and “Treefrog egg-clutch biomechanics and their effect on embryo escape-hatching behavior.” Katherine conducted an independent research project and assisted with several experiments on the projects during both summers. She presented her independent work at SICB 2020 and we have several published papers together.

## EXPERIENCIA EN INVESTIGACIONES

- Investigación de Tesis Postgrado**, Boston University, STRI, Osa Conservation 2017–2023  
*Investigué las consecuencias de la reproducción explosiva para el comportamiento de los adultos y el éxito reproductivo, el ambiente y su efecto en la eclosión, y la supervivencia y el comportamiento de los embriones. Mi trabajo se llevó a cabo en el Instituto Smithsonian de Investigaciones Tropicales en Panamá y en Osa Conservación en la Península de Osa en Costa Rica.*
- Líder de Campo Invitado Investigador Postgrado**, Cal Poly San Luis Obispo 2018  
*Co-lideré los esfuerzos de marcar, aletear, pesar y censos de elefantes marinos (*Mirounga angustirostris*) con el Programa de Investigación de elefantos marinos en Piedras Blancas*
- Asistente de Campo**, NOAA/NMML, Pribilof Islands, Alaska 2016  
*Asistí en cortar, pesar, mediar, marcar, reavivar, manejar animales y desenredar, en esfuerzos de censo, y la colección de escupió, escupió, y de canales de lobos marinos del norte (*Callorhinus ursinus*) en las islas de St. Paul y St. George, Alaska*
- Investigador Estudiantil**, UC San Diego, Vertebrate Foraging Ecology Lab 2015–2016  
*Investigación independiente en el laboratorio de la Dra. Carolyn Kurle estudiando los cambios en la ecología de forrajeo y el comportamiento en cachorros de lobo marino del norte (*Callorhinus ursinus*) en las islas Pribilof, Alaska, utilizando análisis de isótopos estables y estómago*
- Asistente de Campo**, NOAA/NMML, Pribilof Islands, Alaska 2015  
*Asistí en el etiquetar aletas, reavivar, desenredar y montar satélites de lobos marinos del norte (*Callorhinus ursinus*)*
- Interno**, Smithsonian Tropical Research Institute REU, Gamboa, Panama 2015–2016  
*Investigación independiente en el laboratorio de la Dra. Karen Warkentin sobre el comportamiento de los embriones y el rendimiento de eclosión de la rana de árbol de ojos rojos (*Agalychnis callidryas*)*
- Interno/Asistente de Investigación**, SNARL and SNRI, Yosemite National Park, California 2014  
*Investigación independiente en el laboratorio de ecología de agua dulce del Dr. Jonathan Shurin sobre el impacto de la temperatura en el flujo de CO<sub>2</sub> de los lagos de montaña. Ayudé a realizar experimentos de mesocosmos a gran escala en diferentes comunidades de zooplankton del lago de montaña a través de un gradiente de temperatura con la presencia o ausencia de depredadores. Ayudé a recopilar y analizar datos del campo, y adquirió conocimientos sobre diseño experimental y procedimientos*
- Asistente de Investigación**, UC San Diego Freshwater Ecology Lab 2013–2014  
*Asistí a estudiantes posgrados en estudiar los efectos de la variabilidad ambiental en las interacciones de las plantas de marismas, establecer trampas para insectos en el campo y en experimentos comunes en jardines, y en clasificar e identificar invertebrados*

## SERVICIO

### Revisor de Manuscritos

- » Reptiles & Amphibians (2)  
» Behavioral Ecology (1)

- » *Tropical Ecology* (1)
- » *Herpetozoa* (1)
- » *Functional Ecology* (1)
- » *Animal Ecology* (1)
- » *Austral Ecology* (1)
- » *Biological Journal of the Linnean Society* (1)
- » *Behavioral Ecology and Sociobiology* (2)

#### **Revisor de Becas**

- » Boston University Graduate Student Organization 2020–2023

#### **Servicio al Departamento**

- » Host, Dr. Ummat Somjee’s seminar at Boston University EBE Invited Postdoc Speaker 2021

#### **Juez de Presentaciones de Estudiantes**

- » Science Fair Colegio Salesiano Don Bosco, Costa Rica 2019
- » 7th Annual Biology Graduate Student Symposium, Boston University 2019
- » Interdisciplinary Gender Studies class Reproductive Diversity Symposium, Boston University 2018 & 2019

#### **Afiliación de Socios Científicos**

- » Animal Behavior Society 2020–presente
- » American Society of Ichthyologists and Herpetologists 2020–presente
- » Society for the Study of Amphibians and Reptiles 2019–2020
- » Sigma Xi 2018–2020
- » Society for Integrative and Comparative Biology 2016–presente
- » Western Society of Naturalists 2016–2016

### **OUTREACH**

- Charlista**, In Honor of Earth Day: Photography Show & Tell, Hosted by [PhotoShelter](#) 2023  
*Contributed to conversation about my PhD dissertation research, wildlife photography, and conservation.*  
[Twitter Space](#)
- Charlista**, Detroit Zoological Society, Royal Oak, MI 2023  
*Presente sobre mi investigación de tesis doctoral, fotografía de vida silvestre y conservación a estudiantes de primaria, secundaria y preparatoria a través de Zoom.* [Presentación](#)
- Panelista**, Boston University BI671, Boston, MA 2020  
*Respondí preguntas y di sugerencias a nuevos estudiantes graduados sobre el proceso de solicitud de NSF-GRFP y sobre cómo elegir a los miembros del comité y abordar los exámenes de calificación.*
- Charlista de Inauguración y Juez**, Science Fair Colegio Salesiano Don Bosco, Costa Rica 2019  
*Presente la charla de inauguración sobre vocaciones en ciencia y biología; Juez invitado especial para feria de ciencias*
- Líder de discusión**, Osa Conservation Piro Biological Station, Osa Peninsula, Costa Rica 2019  
*Lideró la discusión sobre los desafíos que enfrentan las minorías en STEM; énfasis en mujeres latinas*
- Educador de Ciencias**, Piro Elementary School, Osa Peninsula, Costa Rica 2018  
*Expuse a estudiantes a mi investigación de tesis usando demostraciones prácticas de eclosión inducida por el ambiente y la ecología y comportamiento de mi sistema de estudio usando fotografía y videografía*
- Voluntario**, Boston University BIOBUGS Outreach Program 2017  
*Expone a los estudiantes de secundaria a un sofisticado equipo científico, proporcionando interacción con estudiantes graduados, e introduce a los estudiantes a un campus universitario mediante la realización de experimentos*
- Asistente de Lectura**, Richard J. Murphy Boston Public School 7<sup>th</sup> Grade 2017  
*Contribuyó a las revisiones del plan de lecciones y ayudó a dirigir el material del curso y las tareas de clase en base a la investigación de mi laboratorio realizada en el campo que trabaja con ranas arborícolas de ojos rojos y comportamiento embrionario (con NSF-RET teacher)*

**Lider de excursión**, St. George K-8 elementary school, St. George Island, Alaska 2015  
*Lidero de una excursión para los estudiantes de primaria K-8 de St. George Island, Alaska, a las colonias de lobos marinos del norte, donde observamos y estudiamos la biodiversidad de su isla. Pude compartir mis experiencias sobre mi trabajo con sus carismáticos vecinos lobos marinos, que son una parte crucial de la cultura y la historia Aluet*

## SCIENTIFIC CONSULTING FOR MEDIA

**Videography Assistant and Scientific Consultant**, BBC's *Planet Earth III* 2022–2023  
*Assisted with field-based wildlife videography and provided scientific consulting on gliding treefrogs on Costa Rica's Osa Peninsula*

**Scientific Consultant**, BBC's *Planet Earth III* 2019–2023  
*Consulted and helped plan the production and filming of a Planet Earth III episode*

**Scientific Consultant**, National Geographic Little Kids Magazine 2020  
*Consulted on content for the May/June 2020 issue on Fun with Frogs*

**Stock Material and Scientific Consultant**, NHNZ National Geographic production 2019  
*Provided stock material and scientific consulting on gliding treefrog, *Agalychnis spurrelli*, audio clips for Natural History New Zealand Limited's National Geographic production of Equator's Wild Secrets: Secret Creatures of the Andes*

## MEDIA COVERAGE

**Research—Video:** BBC's *Planet Earth III* "Freshwater" episode, [Osa Conservation](#)

**Photography—Print and online:** *Forbes, CNN, BBC, The Atlantic, The Times, BBC Wildlife Magazine, Australian Photography, PetaPixel, National World, Amateur Photographer, Insider, Western Telegraph, Indy100, La Republica, El Litoral, ¡Que Torta!, The Guardian, Yahoo, Newsweek, Sky News, Daily Mail, Mashable, Iflscience, Ecpoca Negocios, Gizmodo, Paris Match, Euro News, El Observador, National Geographic Traveller | BMC Ecology and Evolution, Science, Nature, National Geographic, The Telegraph, Study Finds, Up Jobs News, PetaPixel | The Brink, Boston University Biology News | Boston University Biology News, EurekAlert!, BioScience*

## HABILIDADES E EXPERIENCIAS DE INVESTIGACION

- » Fotografía y videografía científica y de vida silvestre
- » Navegación todoterreno en auto y en gira
- » Operación de drones
- » Encuentro visuales y acústicos de anfibios
- » Monitoreo de campo de huevos de ranas terrestres
- » Mantenimiento de huevos de rana terrestre en el campo y en el laboratorio
- » Corte de dedos de ranas adultas en el campo
- » Trasplantes de nidadas de huevos de anfibios
- » Mediciones de acelerómetro en el campo dentro de masas de huevos
- » Manipulación de huevos y renacuajos de anfibios
- » Identificación y colección de anfibios y reptiles neotropicales
- » Biogeoquímica de isótopos estables
- » Marine mammal tagging (marking, flipper tagging, re-sighting, weighing, and telemetry)
- » Disecciones de vertebrados, colección y preservación de tejidos en campo
- » Manejo de serpientes venenosas
- » Identificación (a Orden) y colección de insectos
- » Remolque y preservación del zooplancton en el campo
- » Computación
  - » *Git & Github (altamente competente)*
  - » *Microsoft Office Suite (fluido)*
  - » *Adobe Premiere Pro (fluido)*
  - » *Adobe Lightroom (fluido)*
  - » *Adobe Illustrator (fluido)*



- » *Audacity (competente)*
- » *Matlab (competente)*
- » *Raven (competente)*
- » *JMP (competente)*
- » *ImageJ (fluido)*
- » *R (fluido)*