# **ELIZABETH BORDA**

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EDUC	ATION		
2007	Ph.D., E	Biology iversity of New York Graduate School and University Center (CUNY)	2007
1998	B.Š., Bi	ology	
	State U	niversity of New York at Stony Brook	1998
<b>A</b> PPOI	INTMENTS	<b>S</b>	
2017 -	- Present	Chair of Undergraduate Research Learning Commons, Texas A&M University Galveston Campus (TAMUG)	
2015 -	- Present	Lecturer	
2008 -	- Present	Department of Marine Biology, Texas A&M University Galveston Campus Research Associate	
		Division of Invertebrate Zoology, American Museum of Natural History	
2011 -	- 2015	Postdoctoral Research Associate Department of Marine Biology, Texas A&M University Galveston Campus	
2010 -	- 2011	Encyclopedia of Life Rubenstein Fellow	
2007 -	- 2010	Marine Biology Research Division, Scripps Institution of Oceanography (UCS National Science Foundation (NSF) Minority Postdoctoral Research Fellow	D)
		Marine Biology Research Division, Scripps Institution of Oceanography (UCS	D)
2002 -	- 2007	Department of Biological Sciences, Auburn University  NSF Partnerships for Enhancing Expertise in Taxonomy Graduate Student	
2000	2002	Division of Invertebrate Zoology, American Museum of Natural History	
2000 –	- 2002	Scientific Assistant Division of Invertebrate Zoology, American Museum of Natural History	
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	DS AND H		
2016 -	- Present	[coPI] Research Experiences for Undergraduates – Ocean and Coastal Research Experiences for Undergraduates (OCEANUS). National Science Foundation [PI: Patrick Louchouarn]	\$390,259
2015 -	- Present	Aggies Commit to Excellence Scholarship (ACES). Texas A&M University	\$90,000
2015 -	- Present	Galveston Campus – Provost Office [\$30,000 per academic year] Texas A&M University System Louis Stokes Alliance for Minority	\$84,000
		Participation (TAMUS LSAMP) – College Partner funding for Galveston	
2016 -	- 2017	Campus [~\$26,000 per academic year] [coPI] Student Incentive Payment Program Marketing Strategy. <i>Department</i>	\$72,000
0044		of Transportation – Maritime Administration. [PI: Victor Viser]	<b>#</b> 5.000
2014		Office of Academic Enhancement Faculty Fellow. Texas A&M University at Galveston	\$5,000
2012		SICB Broadening Participation Travel Award. Society for Integrative and	\$480
2007 -	- 2010	Comparative Biology Minority Postdoctoral Research Fellowship – Systematics and mitochondrial	\$189,000
		genome evolution of Amphinomida (DBI–0706856). National Science	
2010		Foundation Encyclopedia of Life Rubenstein Fellowship – EOL Annelida: Fireworms	\$18,190
		(Amphinomida) of the World, with species from the Deep Sea to the Sea of	
2010		Cortez. <i>Encyclopedia of Life</i> Faculty Grants – Towards a molecular baseline for marine invertebrates of	\$15,000
		the Gulf of California: an assessment of biodiversity, evolution and	•
		conservation. <i>University of California Institute for Mexico and the United States</i> [UCMEXUS; authored proposal; PI: Greg Rouse]	
2009		Ernst Mayr Travel Grant – Photo-documentation and databasing of museum	\$1,000
		types of fireworms (Annelida: Amphinomida). Harvard University	

AWARDS AND HONORS (CONT'D)					
2009	Training Award for New Investigators (TAWNI) – Deep-sea fireworms: morphological evaluation of the cosmopolitan <i>Archinome</i> , with descriptions and new records of amphinomids from cold seeps. <i>Census of Marine Life</i>	\$5,000			
2008	Mini-PEET Award – Taxonomic Training in Amphinomida. Society of Systematic Biologists	\$2,050			
2007	The Marie Stopes Student Travel Grant. The Willi Hennig Society	\$500			
2006	CUNY Mario Capelloni Dissertation Fellowship	\$20,000			
2003 – 2007	Marc Dresden Travel Grant. The American Society of Parasitologists	\$1,200			
2002 – 2005	CUNY NSF-Alliance for Graduate Education and the Professoriate Award	\$20,000			
2002 – 2004	CUNY Science Alliance Fellowship	\$18,000			

### **TEACHING EXPERIENCE**

Texas A&M University at Galveston

Department of Marine Biology

2016 - Present Graduate Seminar in Marine Biology and Marine Sciences Fall/Spring

- Course for Graduate Students in Marine Biology, Oceanography, Marine Sciences, Ocean and Coastal Resources Management (Enrollment: 10-15)
- Seminar series involving the coordination and invitation of speakers, including scientists from local, regional and (inter)national academic and research institutions
- Topics emphasize interdisciplinary research related to ocean and coastal studies (including biology, environmental, physical and/or chemical sciences, engineering and medicine)

2015 - Present Seminar in Marine Biology

Fall/Spring

- Course for Senior Level Classification (Enrollment: 12-17)
- Writing intensive course focusing on the enhancement of written, oral and communication skills, emphasizing the science communication
- Students receive the tools to develop an 'elevator pitch', a 3-5 minute 'passion' speech, present and critique a research article and write a 'mock' personal statement for graduate school
- Student assessment based on completion of course writing assignments and presentations

2014 - Present Evolutionary Biology

Fall

- Course for Junior and Senior Level Classification (Enrollment: 20-30)
- Introduction to evolutionary concepts: History of Life, Natural Selection, Mutations, Genetic Drift, Speciation, Phylogenetics, Adaptations, etc.
- Students engage in class discussions, give oral and/or video presentations and learn phylogenetic analyses of genetic data
- Student assessment based on course exams, quizzes and presentations

2014 – 2016 Genetics Lab

Fall/Spring

Spring/Fall

- Lab coordinator and instructor (1 4 sections; 16 17 students per section)
- Laboratory course of Genetics and for Sophomore, Junior and Senior Level Classification
- Responsible for weekly laboratory preparation
- Provided students with training in laboratory techniques and methods used in genetics research including: electrophoresis, DNA extraction, DNA fingerprinting, polymerase change reaction, bacterial transformation, and basic bioinformatics training in DNA sequence species identification using commonly used online databases.
- Student assessment based on laboratory exams, weekly quizzes, written lab reports and laboratory presentations

2013 Genetics

- Lecture course for Sophomore, Junior and Senior Level Classification
- Introduction to genetics concepts including inheritance, gene expression, mutations and evolution, integrated both primary literature and media-based case studies and addressed both social and political issues relevant to students beyond the classroom.
- · Student assessment based on course exams and quizzes

## **UNDERGRADUATE RESEARCH PROGRAMS EXPERIENCE**

Texas A&M University at Galveston

2016 – Present TAMU Undergraduate Research Ambassadors

Fall/Spring

- Galveston Campus liaison for LAUNCH: <a href="http://launch.tamu.edu">http://launch.tamu.edu</a>
- Coordination of URS orientation, informational and thesis writing sessions and other programmatic activities as needed
- Promote URS presentation participation in TAMUS sponsored research symposia
- Number of participants: 3
- 2016 Present Ocean and Coastal Research Experiences for Undergraduates Summer
  - Program management of Research Experiences for Undergraduates Site http://www.tamug.edu/research/oceanus/
  - Responsible for student recruitment, selection, faculty matches and mentorship of 12 undergraduate students funded through OCEANUS (non-TAMUG) and LSAMP (TAMUG)
  - Assisting with and coordination of student business transactions including student enrollment, stipend payment, housing and meals, travel, reimbursements, etc.
  - Coordination of enrichment activities including workshops on Leadership, Research and Communication, Careers in STEM, Diversity and Inclusion and Applying to Graduate School
  - · Promote presentation participation in TAMU and TAMUG sponsored summer research symposia
  - Number of funded participants: 12

2016 – Present TAMU Undergraduate Research Scholars (URS)

Fall/Spring

- Galveston Campus liaison for LAUNCH <a href="http://launch.tamu.edu">http://launch.tamu.edu</a>
- Coordination of URS orientation, informational and thesis writing sessions and other programmatic activities as needed
- · Promote URS presentation participation in TAMUS sponsored research symposia
- No. of participants: 34

2015 – Present Texas A&M University System Louis Stokes Alliance for Minority Participation

Fall/Spring/Summer

- TAMUS LSAMP liaison for the Galveston Campus: http://tamuslsamp.org
- Initiated program and continuing program funding for the Galveston Campus
- Responsible for student recruitment, selection, faculty matches and mentorship
- Promote presentation participation in TAMUG and LSAMP sponsored research symposia
- No. of TAMUG students funded to date: 12

2015 – Present Aggies Commit to Excellence Scholars

Fall/Spring

- http://www.tamug.edu/research/UG Research/ACES.html
- · Initiated program and continuing program funding
- Responsible for student recruitment, selection, faculty matches and mentorship
- Promote presentation participation in TAMUG and LSAMP sponsored research symposia
- No. of TAMUG students funded to date: 28

## **PUBLICATIONS** \*graduate student; <sup>†</sup>undergraduate student

Journal Articles

Accepted. Schulze A, Hipes J<sup>†</sup>, **Borda E** and Rice ME. Who's who in sipunculans? Matching larvae and adults using DNA. *Smithsonian Contributions to Marine Science* 

- 2017. Gonzalez BC\*, Martinez A, **Borda E**, Iliffe TM, Fontaneto D and Worsaae K. Phylogeny and systematics of the Aphroditiformia based on total evidence. *Cladistics*. DOI: 10.1111/cla.12202
- 2017. Gonzalez BC\*, Martinez A, **Borda E**, Iliffe TM, Fontaneto D and Worsaae K. Genetic spatial structure of an anchialine annelid indicates the presence of a crevicular spelean corridor within but not between islands of the Great Bahama Bank. *Molecular Phylogenetics and Evolution*
- 2016. Tessler M\*, Barrio A, **Borda E**, Rood-Goldman R, Hill M and Siddall ME. Description of an extant soft-bodied invertebrate with microcomputed tomography and phylogenetic revision of duognathous terrestrial leeches (Haemadipsidae: Chtonobdella). *Zoological Scripta*. DOI: 10.1111/zsc.12165

## **PUBLICATIONS (CONT'D)**

- 2015. **Borda E**, Yáñez-Rivera B, Ochoa GM<sup>†</sup>, Kudenov JD, Sanchez-Ortiz C, Schulze A and Rouse G. Revamping Amphinomidae (Annelida: Amphinomida), with the inclusion of *Notopygos*. *Zoologica Scripta* 44 (3): 324–333.
- 2014. Kot BW, Sears R, Zbinden D, **Borda E** and Gordon MS. Rorqual whale (Balaenopteridae) surface lunge-feeding behaviors: standardized classification, repertoire diversity and evolutionary analysis. *Marine Mammal Science*. DOI: 10.1111/mms.12115 \*\*Cover Article\*\*
- 2014. **Borda E** and Kudenov JD. Euphrosinidae (Annelida: Amphinomida) collected from Antarctica by the *R/V Polarstern* in 1984 and 1986, with comments on the generic placement of *Euphrosine magellanica*. *Proceedings of the Biological Society of Washington* 126(4): 299-311
- 2013. **Borda E**, Kudenov JD, Blake JA, Chevaldonné P, Desbruyères D, Hourdez S, Fabri M-C, Pleijel F, Schulze A, Shank T, Wilson NG and Rouse GW. Cryptic species of *Archinome* (Annelida: Amphinomida) from vents and seeps. *Proceedings of the Royal Society of London B: Biological Sciences* 280(1770): 20131876
- 2013. Ahrens J\*, **Borda E**, Barroso R, Campbell AM<sup>†</sup>, Wolf A\*, Nugues M, Paiva P, Rouse GW and Schulze A. The curious case of *Hermodice carunculata* (Annelida: Amphinomidae): evidence for genetic homogeneity throughout the Atlantic Ocean and associated basins. *Molecular Ecology* 22(8): 2280–2291 \*\*Cover Article\*\*
- 2012. Rocha R, **Borda E**, Andreone F and Rosa GM. First reports of leech parasitism in Malagasy anurans. *Comparative Parasitology* 79(2): 352-356
- 2012. **Borda E**, Kudenov JD, Beinhold C and Rouse GW. Towards a revised Amphinomidae (Annelida, Amphinomida): description and affinities of a new genus and species from the Nile Deep-sea Fan, Mediterranean Sea. *Zoologica Scripta*. 40(3): 307–325
- 2011. **Borda E** and Siddall ME. Insights into the evolutionary history of Indo-Pacific bloodfeeding terrestrial leeches (Hirudinida: Arhynchobdellida: Haemadipsidae). *Invertebrate Systematics* 24(5): 456–472 \*\*Cover Article\*\*
- 2010. Graham SP\*, **Borda E** and Connell MR<sup>†</sup>. (2010) *Agkristrodon piscivorous* (Cottonmouth). Ectoparasite. *Herpetological Review*. 41 (1): 88
- 2010. Graham SP\* and **Borda E**. First report of leech parasitism in the amphibian family Sirenidae. *Comparative Parasitology* 77(1): 105–107
- 2008. **Borda E**, Oceguera-Figueroa A\* and Siddall ME. On the classification, evolution and biogeography of terrestrial haemadipsoid leeches (Hirudinida: Arhynchobdellida: Hirudiniformes). *Molecular Phylogenetics and Evolution*. 46(1): 142–154
- 2006. **Borda E**. A Revision of the Malagabdellinae (Arhynchobdellida: Domanibdellidae), with a description of a new species, *Malagabdella niarchosorum*, from Ranomafana National Park, Madagascar. *American Museum Novitates* 3531: 1–13
- 2005. Siddall ME Budinoff RB<sup>†</sup> and **Borda E**. Phylogenetic evaluation of systematics and biogeography of the leech family Glossiphoniidae. *Invertebrate Systematics*. 19(2): 105–112
- 2004. **Borda E** and Siddall ME Arhynchobdellida (Annelida: Oligochaeta: Hirudinida): phylogenetic relationships and evolution. *Molecular Phylogenetics and Evolution* 30: 213–225 [Citation: 101]
- 2004. Siddall ME and **Borda E.** Leech collections from Chile including two new species of *Helobdella*. *American Museum Novitates*. 3457: 1–18
- 2004. **Borda E** and Siddall ME. Review of the evolution of life history strategies of the Hirudinida (Annelida: Oligochaeta). *Lauterbornia* 52: 5–25
- 2003. Siddall ME and **Borda E.** Phylogeny of the leech genus *Helobdella* (Hirudinea: Glossiphoniidae) based on mitochondrial gene sequences and morphological data and a special consideration of the *triserialis* complex. *Zoologica Scripta* 32: 23–33

## **Book Chapters**

- 2011. **Borda E.** Hirudinida. Gerlach J (ed.) Crustacea, Platyhelminthes, Nematoda, Annelida, Rotifera and Tardigrada of the Seychelles islands. Siri Scientific Press, Manchester
- 2009. Halanych KM and **Borda E**. Developing models for lophotrochozoan and annelid biology. *Annelids in Modern Biology*. Shaine D (ed) John Wiley & Sons. Indianapolis, IN
- 2006. Siddall ME, Bely AE and **Borda E.** Hirudinida. *Reproductive Biology and Phylogeny of Annelida*. Rouse G and Pleijel F (eds.) Enfield, NH
- 2004. Siddall ME, **Borda E** and Rouse GW. Towards a Tree of Life for the Annelida. *Assembling the Tree of Life*. Cracraft J and Donoghue M (eds.) Oxford University Press

## **PUBLICATIONS (CONT'D)**

Conference Proceedings and Abstracts

- 2016. Kudenov JD, Borda E and Desbruyers D. Novel morphology in a new genus of deep-water Amphinomidae (Annelida: Amphinomida) from the eastern Pacific. *Integrative and Comparative Biology* 56: E318-E318
- 2012. Gonzalez BC\*, **Borda E,** Carvalho R, Schulze A. Polychaetes from the Mayan underworld: phylogeny, evolution, and cryptic diversity. *Natura Croatica* 21(1): 51–53. [The 2<sup>nd</sup> International Anchialine Symposium, Cavat, Croatia, October 3-6, 2012]
- 2012. **Borda E**, Kudenov JD, Blake JA, Chevaldonné P, Desbruyères D, Hourdez S, Fabri M-C, Pleijel F, Schulze A, Shank T, Wilson NG and Rouse GW. Cryptic species of *Archinome* (Annelida: Amphinomida) from hydrothermal vents and cold seeps. *Integrative and Comparative Biology* 51: E17
- 2012. Nguyenba A<sup>†</sup>, **Borda E**, Alvarado JR, Schulze A. Delineating cryptic species and populations of the cosmopolitan fireworm genus *Eurythoe* (Annelida: Amphinomidae) using High-Resolution Melting Analysis (HRMA). *Integrative and Comparative Biology* 52: E303
- 2009. **Borda E** and Halanych KM. Mitochondrial genome evolution of Amphinomidae (Annelida: Amphinomida). *Integrative and Comparative Biology* 49: E17
- 2003. **Borda E** and Siddall ME. Phylogeny and evolution of the Arhynchobdellida (Annelida: Oligochaeta: Hirudinida). *Cladistics-The International Journal Of The Willi Hennig Society* 20(1): 77-78

### Dissertation

2007. Systematics and biodiversity of Arhynchobdellida (Oligochaeta: Hirudinida), with a focus on the evolutionary history of bloodfeeding terrestrial leeches

ADVISOR: Mark E. Siddall

### **MENTORSHIP** \*underrepresented minority

- TAMUS Louis Stokes Alliance for Minority Participation (LSAMP)
  - 2017. Arianna Bartlett\* (Senior); bioinformatics training, gene annotation and function identification of transcriptome data collected from fireworms (Annelida: Amphinomida). Co-Mentor: Dr. Jessica Labonté (MARB)
  - 2017. Giovanni Madrigal\* (Senior); bioinformatics training, gene annotation and function identification of transcriptome data collected from fireworms (Annelida: Amphinomida). Co-Mentor: Dr. Jessica Labonté (MARB). Now: Graduating December and starting graduate school at TAMUG
  - 2016 2017. Arianna Bartlett\* (Senior); molecular lab training, genetic data collection of deep-sea fishes from the Northern Atlantic and Gulf of Mexico. Co-Mentor: Dr. Ron Eytan (MARB)
  - 2016 2017. Arthur Branch III\* (Senior); molecular lab training, genetic data collection of *Typhlatya* anchialine cave shrimp from Yucatan cenotes. Now: Graduated
  - 2016. Aimee Cook\* (Senior); molecular lab training, genetic data collection of deep sea fishes from the Northern Atlantic and Gulf of Mexico. Co-Mentor: Dr. Ron Eytan Now: Graduated; Fisheries Observer
  - 2015. Adrian Gardner\* (Senior); molecular lab training, genetic data collection of deep sea fishes from the Gulf of Mexico; LSAMP student Co-Mentor: Dr. Ron Eytan Now: Graduated
- Aggies Commit to Excellence Scholar (ACES) & Undergraduate Research Scholar
  - 2015 Present. Kathryn Kunz (Senior); molecular lab training, genetic data collection of *Janaria* and *Manucomplanus* from the Gulf of California. Co-Mentor: Dr. Maria Pia Miglietta (MARB)
- NSF TAMUG Research Experiences for Undergraduates
  - 2012. Gabriela M. Ochoa\*; taxonomy, molecular lab training, data collection, phylogenetic analyses of Archinominae (Amphinomidae); co-author on the descriptions of a new species of *Notopygos* and from the GoC. Now: Program Coordinator, Mar Alliance
  - 2011. Jacqueline Hipes [Co-mentor] (Louisiana State University); molecular lab training, data collection and phylogenetic analyses of Sipuncula. Now: MS graduate, University of South Florida

## MENTORSHIP (CONT'D)

Other Research Mentorship

**Graduate Students** 

- 2017 Present. Lauren Ballou; molecular lab training, genetic data collection of *Typhlatya* and Remipedia from anchialines cave. Graduate Committee member
- 2017 Present. Fernando Calderon; projected: molecular lab training, genetic data collection of invertebrate taxa from anchialines cave of the Yucatan. Graduate Committee member
- 2015. Ariadna Avila\* (visiting MS student; Universidad Autonoma de Baja California Sur); Genetic and morphological evaluation of the caridean shrimp *Sandyella* from the GoC. Now. Masters in Biology
- 2015. Ramiro de Jesus Arcos Aguilar\* (visiting MS student; Universidad Autonoma de Baja California Sur); molecular lab training on the stag horned hermit crab (*Manucomplanus*) and hydroid symbiont (*Janaria*) from the Gulf of California (GoC) and Pacific. Now. Master's in Marine Biology
- 2012. Beatriz Yáñez-Rivera\* (PhD student, Universidad Nacional Autónoma de México, Mazatlan); manuscript preparation on *Eurythoe* and descriptions of a new *Chloeia* and *Notopygos* species from the Gulf of California (GoC). Now: Postdoc, Universidad Nacional Autónoma de México, Mazatlan
- 2011 2016. Brett Gonzalez\* [Collaborator] phylogeny and evolution of anchialine cave annelids from the Bahamas (Polynoidae) and Quintana Roo, Yucatan Peninsula (Flabelligeridae, Acrocirridae). Now: PhD Graduate, University of Copenhagen. Now: PhD graduate, Univ. of Copenhagen
- 2011 2013. Joseph Ahrens [Co-mentor] (MS, MARB 2013'); phylogeography of *Hermodice* (Amphinomidae). Now: PhD student, Florida International University

Undergraduate students

- 2015 2016. Kaitlyn Hickman (MARB 2016'); molecular lab training, genetic data collection of *Typhlatya* anchialine cave shrimp from Yucatan cenotes.
- 2014 2015. Taliese Laverne (MARB 2015'); molecular lab training, genetic data collection of staghorned hermit crab from the GoC and the Pacific. Now: Masters in Maritime Administration, TAMUG 2017'
- 2012. Mirandia Johnson (MARB 2012'); molecular lab training and data collection of *Eurythoe* (Amphinominae) from the GoC and the Pacific. Now: Diver, Downtown Aguarium Houston
- 2011. Andrew Nguyenba\* (MARB 2011'); molecular lab training, nuclear data collection, phylogenetic analyses and High-Resolution Melting Analysis of *Eurythoe* (Amphinomidae). Now: BS/Master's student in Biomedical Engineering, University of Texas Dallas

## **INVITED TALKS**

- 2015 St. Edwards University, Department of Biology Austin, TX. "Unraveling invertebrate diversity and evolution"
- 2013 Texas A&M University, First Annual Evolution Symposium College Station, TX. "Cryptic species of *Archinome* (Annelida: Amphinomida) from vents and seeps"
- 2013 Smithsonian Institution National Museum of Natural History, Department of Invertebrate Zoology Washington, DC. "Unraveling annelid diversity from land to the deep sea"
- 2012 Texas A&M University at Galveston, Department of Marine Biology Galveston, TX. "Cryptic fireworms: deep divergences, old origins and overlooked diversity"
- 2011 Texas A&M University, Department of Wildlife and Fisheries College Station, TX. "From bloodsuckers to stinging fireworms: unraveling annelid biodiversity patterns from land to the deep sea"
- 2010 Harvard University, Department of Organismic and Evolutionary Biology Cambridge, MA. "Neglected Invertebrates: using integrative systematics to elucidate patterns in biodiversity from land to the deep sea"
- 2010 University of California San Diego, Leech Fest San Diego, CA. "On the amazing diversity of bloodsucking land leeches (Hirudinida: Arhynchobdellida: Haemadipsidae)"
- 2010 Scripps Institution of Oceanography, Marine Biology Research Division La Jolla, CA. "Neglected Invertebrates: using integrative systematics to elucidate patterns in biodiversity from land to the deep sea"

### **INVITED TALKS**

- 2009 Scripps Institution of Oceanography, Marine Biology Research Division La Jolla, CA. "Biogeography and evolution of jungle leeches (Hirudinida: Arhynchobdellida: Haemadipsidae): the paradox of trans-oceanic dispersal of IndoPacific terrestrial annelids"
- 2007 Smithsonian Institution National Museum of Natural History, Department of Invertebrate Zoology Washington, DC. "Systematics and biodiversity of Arhynchobdellida (Oligochaeta: Hirudinida) with a focus on the evolutionary history of bloodfeeding terrestrial leeches"
- 2005 Universidad de Buenos Aires, Departamento de Biodiversidad y Biología Experimental Buenos Aires, Argentina. "Arhynchobdellida: phylogeny and evolution"
- 2004 City University of New York Graduate School and University Center Minority Access/Graduate Networking in the Sciences, Technology, Engineering and Mathematics New York, NY. "Diversity, phylogeny and evolution of arhynchobdellid leeches (Oligochaeta: Hirudinida)"

### **CONTRIBUTED TALKS**

- 2012 Annual Meeting, Society for Integrative and Comparative Biology Charleston, SC. "Cryptic species of *Archinome* (Amphinomida) from hydrothermal vents and cold seeps."
- 2010 Hennig XXIX. Honolulu, HI "Fireworms from the chemosynthetic deep: a phylogenetic evaluation of the cosmopolitan *Archinome rosacea*"
- 2010 The 10<sup>th</sup> International Polychaete Conference Lecce, Italy. "Phylogenetic evaluation of the cosmopolitan hydrothermal vent amphinomid, *Archinome rosacea* (Aciculata: Amphinomida)"
- 2009 The Society for Integrative and Comparative Biology Boston, MA. "Mitochondrial genome evolution of Amphinomidae (Annelida: Amphinomida)"
- 2008 Evolution 2008 Minneapolis, MN. "Biogeography and evolution of Haemadipsidae (Hirudinida: Arhynchobdellida: Hirudiniformes): The paradox of transoceanic dispersion of Indo-Pacific terrestrial annelids"
- 2008 The Society for Integrative and Comparative Biology San Antonio, TX. "Systematics and diversity of Arhynchobdellida (Oligochaeta: Hirudinida), with a focus on the evolutionary history of bloodfeeding terrestrial leeches"
- 2007 Hennig XXVI New Orleans, LA. "Systematics and biogeography of IndoPacific bloodfeeding terrestrial leeches (Oligochaeta: Hirudinida: Arhynchobdellida)"
- 2007 82<sup>nd</sup> Annual Meeting of the American Society of Parasitologists Merida, Mexico. "Systematics and biogeography of IndoPacific bloodfeeding terrestrial leeches (Hirudinida: Arhynchobdellida: Hirudiniformes)"
- 2006 Evolution 2006 Stony Brook, NY. "Systematics and Biogeography of bloodfeeding terrestrial leeches (Oligochaeta: Hirudinida: Arhynchobdellida)"
- 2004 Evolution '04 Conference Ft. Collins, CO. "Diversity, phylogeny and evolution of arhynchobdellid leeches (Annelida: Oligochaeta: Hirudinida)"
- 2004 First International Meeting on Evolution, Development and Neurobiology of the Leech Villeneuve d'Ascq, France. "Phylogeny of Arhynchobdellida (Annelida: Oligochaeta: Hirudinida) and the evolution of bloodfeeding and terrestrialism"
- 78th Annual Meeting of the American Society of Parasitologists Halifax, Nova Scotia. "Arhynchobdellida: diversity, phylogeny and evolution (Annelida: Oligochaeta: Hirudinida)"
- 2003 Hennig XXII New York, NY. "Phylogeny and evolution of the Arhynchobdellida (Annelida: Oligochaeta: Hirudinida)"

## POSTERS <sup>†</sup>Undergraduate \*Graduate

- 2017 Madrigal G<sup>†</sup>, Labonté J and Borda E. and Comparative transcriptomics of amphinomid fireworms and relatives. *LAUNCH Summer Undergraduate Research Poster Session St* College Station, TX
- 2017 Bartlett A<sup>†</sup>, Weber M \*, Borda E and Eytan R. Population genetics of deep-sea fishes in the Gulf of Mexico & Bear Seamount. *TAMUG Student Research Symposium* Galveston, TX
- 2017 Bartlett A<sup>†</sup>, Weber M \*, Borda E and Eytan R. Population genetics of deep-sea fishes in the Gulf of Mexico & Bear Seamount. *TAMUS-LSAMP Research Symposium* Texas A&M Prairie View
- 2017 Branch A<sup>†</sup>, Brankovits D \*, Iliffe T, Miglietta MP and Borda E. Genetic Diversity and Evolution of Anchialine Cave Shrimp of the Yucatán Peninsula, Mexico. *TAMUG Student Research Symposium* Galveston, TX

## POSTERS (CONT'D)

- 2017 Branch A<sup>†</sup>, Brankovits D \*, Iliffe T, Miglietta MP and Borda E. Genetic Diversity and Evolution of Anchialine Cave Shrimp of the Yucatán Peninsula, Mexico. *TAMUS-LSAMP Research Symposium* Texas A&M University Prairie View
- 2017 Kunz K<sup>†</sup>, de Jesus Arcos Aguilar R \*, Sanchez-Ortiz C, Borda E and Miglietta MP. Evaluation of the Co-Evolution and Genetic Diversity of the Stag-Horned Hydrocoral and its Hermit Crab Host from the Pacific and Gulf of California. *TAMUG Student Research Symposium* Galveston, TX
- 2016 Cook A<sup>†</sup>, Borda E and Eytan R. Long distance relationships: population genetics of deep-sea fishes. *TAMUG Student Research Symposium* Galveston, TX
- 2016 Cook A<sup>†</sup>, Borda E and Eytan R. Long distance relationships: population genetics of deep-sea fishes. *LSAMP Symposium* Texas A&M University Corpus Christi Corpus Christi, TX
- 2016 Hickman K, Brankovits D, Iliffe T, Miglietta MP and Borda E. Diversity, ecology and evolution of Typhlatya species (Atyidae) from anchialine caves of the Yucatan Peninsula, Mexico. TAMUG Student Research Symposium – Galveston, TX
- 2012 Ochoa GM<sup>†</sup>, Borda E and Schulze A. Expanding the phylogeny of Archinominae (Annelida: Amphinomida: Amphinomidae). *TAMUG NSF REU Research Symposium -* Galveston, TX
- Johnson M<sup>†</sup>, Borda E and Schulze A. *Eurythoe complanata*: more cryptic species in the Pacific? *TAMUG Student Research Symposium* – Galveston, TX \*\*3<sup>rd</sup> Place Winner\*\* (Marine Biology)
- 2012 De Guzman H\*, Borda E and Schulze A. Genotypic diversity of sabellid worms from carbon dioxide vents. *TAMUG Student Research Symposium* Galveston, TX
- Ahrens JB\*, Borda E, Campbell AM<sup>†</sup> and Schulze A. High degree of connectivity among amphi-Atlantic populations of *Hermodice carunculata* (Amphinomidae, Annelida). *TAMUG Student Research Symposium* – Galveston, TX
- Nguyenba A<sup>†</sup>, Borda E, Alvarado JR and Schulze A. Delineating cryptic species and populations of the cosmopolitan fireworm genus *Eurythoe* (Annelida: Amphinomidae) using High-Resolution Melting Analysis (HRMA). *Society for Integrative and Comparative Biology* Charleston, SC
- Ahrens J B\*, Borda E, Campbell AM<sup>†</sup> and Schulze A. High degree of connectivity among amphi-Atlantic populations of *Hermodice carunculata* (Amphinomidae, Annelida). *2012 Annual Meeting, Society for Integrative and Comparative Biology* – Charleston, SC
- 2011 Yáñez-Rivera B\*, Méndez N and Borda E. Oogénesis intra-ovárica en una especie de *Notopygos* (Amphinomidae). *El Colegio de La Frontera Sur* Chetumal, Mexico

## **WORKSHOPS AND TRAINING**

- 2017 20th Annual Teaching & Learning in Higher Education Wakonse South Conference. "Activating Student Learning" Burnet, TX.
- 2016 IndoPacific Polychaete Workshop. Natural History Museum Paris, France.
- 2013 Introduction to Bioinformatics and Transcriptomics, Auburn University, Auburn, AL
- 2012 Fall Marine Taxonomy Workshop: Introduction to the Polychaetes, Florida Association of Benthologists Tampa, FL
- 2009 Workshop on Molecular Evolution, Marine Biological Laboratory Woods Hole, MA
- 2008 American Association for Underwater Sciences Scientific Diver Training, Scripps Institution of Oceanography La Jolla, CA
- 2008 Advanced Diver Training, SCUBA Schools International Auburn, AL
- 2007 Open Water Diver Training, SCUBA Schools International Auburn, AL
- 2000 *The Professional Forestry and Wildlife Conservation Program*, The School of Forestry and Wildlife Conservation. Professional Career Development Institute
- 1996 *University Development Linkage Project USAID Certificate*, Institute for the Conservation of Tropical Environments Stony Brook, NY / Antananarivo, Madagascar

#### FIELDWORK EXPERIENCE

### Marine Invertebrates

- 2012 MEXICO: Gulf of California, Baja California Sur, La Paz Los Cabos (Jul; 2 wks)
- 2011 USA: Cape Hatteras NSF WormNet2 Research Cruise (May; 1 wk)
- 2010 INDONESIA: Bali, Sulawesi, Sumatra *NSF Coral Triangle PIRE* (Jul/Aug; 5 wks) Costa Rica: Costa Rica Margin cold seeps; WHOI Atlantis 15-59 (Jan; 1 wk)
- 2009 MEXICO: Gulf of California SIO-UABCS cruise (Jul; 3 wks)

PANAMA: Bocas del Toro Smithsonian Tropical Research Institute (Mar; 1 wk)

- 2008 MEXICO: Quintana Roo (May; 1 wk) Hirudinida (freshwater and terrestrial leeches)
- 2006 AUSTRALIA: New South Wales, Queensland, Northern Territory, (Apr; 3 wks)
- 2005 THAILAND: Chiang Mai, Kachanburi, Prachinburi, Surat Thani (Sep/Oct; 5 weeks)
- 2005 MALAYSIA: Kelantan (Sep; 1 week) CANADA: Ontario (June; 1 week)
- 2004 USA: Louisiana (Jul; 1 wk) FRANCE: Rennes (Jun; 1 wk)
- 2003 CANADA: Ontario (Jun; 1 wk)
- 2002 CANADA: Ontario (Jun; 1 wk)
- 2002 SEYCHELLES: Mahé, Silhouette (Mar; 1 wk)
  - MADAGASCAR: Fianarantsoa, Fort Dauphin, Moramanga (Feb/Mar.; 4 wks)
- 2001 SOUTH AFRICA: Hoedspruit (Sep; 2 wks)
- 2001 CANADA: Ontario (Jun; 1 wk)
  - CHILE: Chiloé, Los Lagos, Santiago, Valdivia (Feb; 3 wks)

## Primates (lemurs)

1996 MADAGASCAR: Ranomafana National Park (Sep-Dec; 3 mths)

## **PROFESSIONAL AFFILIATIONS**

Society of Systematic Biologists Society for Integrative and Comparative Biology

## **SERVICE**

## Texas A&M University at Galveston

2016 - 2017	Co-Chair, Student Research Symposium – Texas A&M University at Galveston
2016	Search Committee. Career Counselor – Texas A&M University at Galveston
2014 – 2016	Committee on Climate and Inclusion – Texas A&M University at Galveston
2014	Diversity Steering Committee – Texas A&M University at Galveston

## Proposal Reviewer

2015	NSF Phylogenetic Systematics – External R	\!
71115	NISE Phylogophic Systematics — Eviernal B	

- 2014 NSF Doctoral Dissertation Improvement Grant (DDIG) Panel
- 2012 NSF Phylogenetics Systematics Panel
- 2011 Encyclopedia of Life Rubenstein Fellowships

### Journal Reviewer

Acta Zoologica Marine Biodiversity Records
Acta Zoologica Mexicana Marine Biology Research

American Museum Novitates Molecular Phylogenetics and Evolution

Aquatic Biology PLOS ONE

Biological Journal of the Linnean Society Revista Mexicana de Biodiversidad

Ecology and Evolution Zoological Science Invertebrate Systematics Zoologica Scripta

Journal of Parasitology