

ELIZABETH BORDA

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EDUCATION

2007	Ph.D., Biology City University of New York Graduate School and University Center (CUNY)	2007
1998	B.S., Biology State University of New York at Stony Brook	1998

APPOINTMENTS

2017 – Present	<i>Chair of Undergraduate Research</i> Learning Commons, Texas A&M University Galveston Campus (TAMUG)
2015 – Present	<i>Lecturer</i> Department of Marine Biology, Texas A&M University Galveston Campus
2008 – Present	<i>Research Associate</i> Division of Invertebrate Zoology, American Museum of Natural History
2011 – 2015	<i>Postdoctoral Research Associate</i> Department of Marine Biology, Texas A&M University Galveston Campus
2010 – 2011	<i>Encyclopedia of Life Rubenstein Fellow</i> Marine Biology Research Division, Scripps Institution of Oceanography (UCSD)
2007 – 2010	<i>National Science Foundation (NSF) Minority Postdoctoral Research Fellow</i> Marine Biology Research Division, Scripps Institution of Oceanography (UCSD)
2002 – 2007	<i>NSF Partnerships for Enhancing Expertise in Taxonomy Graduate Student</i> Division of Invertebrate Zoology, American Museum of Natural History
2000 – 2002	<i>Scientific Assistant</i> Division of Invertebrate Zoology, American Museum of Natural History

AWARDS AND HONORS

2016 – Present	[coPI] Research Experiences for Undergraduates – <i>Ocean and Coastal Research Experiences for Undergraduates (OCEANUS)</i> . National Science Foundation [PI: Patrick Louchouart]	\$390,259
2015 – Present	Aggies Commit to Excellence Scholarship (ACES). Texas A&M University Galveston Campus – Provost Office [\$30,000 per academic year]	\$90,000
2015 – Present	Texas A&M University System Louis Stokes Alliance for Minority Participation (TAMUS LSAMP) – College Partner funding for Galveston Campus [~\$26,000 per academic year]	\$84,000
2016 – 2017	[coPI] Student Incentive Payment Program Marketing Strategy. Department of Transportation – Maritime Administration. [PI: Victor Viser]	\$72,000
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 Comparative Biology	\$480
2007 – 2010	Minority Postdoctoral Research Fellowship – Systematics and mitochondrial genome evolution of Amphinomida (DBI-0706856). National Science Foundation	\$189,000
2010	Encyclopedia of Life Rubenstein Fellowship – EOL Annelida: Fireworms (Amphinomida) of the World, with species from the Deep Sea to the Sea of Cortez. Encyclopedia of Life	\$18,190
2010	Faculty Grants – Towards a molecular baseline for marine invertebrates of the Gulf of California: an assessment of biodiversity, evolution and conservation. University of California Institute for Mexico and the United States [UCMEXUS; authored proposal; PI: Greg Rouse]	\$15,000
2009	Ernst Mayr Travel Grant – Photo-documentation and databasing of museum types of fireworms (Annelida: Amphinomida). Harvard University	\$1,000

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. <i>Society of Systematic Biologists</i>	\$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 | <i>Graduate Seminar in Marine Biology and Marine Sciences</i> | Fall/Spring |
| | <ul style="list-style-type: none"> • 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 | <i>Seminar in Marine Biology</i> | Fall/Spring |
| | <ul style="list-style-type: none"> • 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 | <i>Evolutionary Biology</i> | Fall |
| | <ul style="list-style-type: none"> • 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 | <i>Genetics Lab</i> | Fall/Spring |
| | <ul style="list-style-type: none"> • Lab coordinator and instructor (1 – 4 sections; 16 – 17 students per section) • Laboratory course of <i>Genetics</i> 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 chain 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 | <i>Genetics</i> | Spring/Fall |
| | <ul style="list-style-type: none"> • 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: <http://launch.tamu.edu>
 - 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 <http://launch.tamu.edu>
 - 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; †undergraduate student

Journal Articles

- Accepted. Schulze A, Hipes J[†], **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[†], 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. Euphosinidae (Annelida: Amphinomida) collected from Antarctica by the *R/V Polarstern* in 1984 and 1986, with comments on the generic placement of *Euphosine 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[†], 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, Beinholt 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[†]. (2010) *Agkistrodon 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**, Ocegüera-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 Malagabdelinae (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[†] 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 2nd 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[†], **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 Archinominiinae (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 stag-horned 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 Aquarium 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 10th 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 82nd 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”
- 2003 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 †Undergraduate *Graduate

- 2017 Madrigal G[†], 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[†], 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[†], 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 Branch A[†], 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[†], 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[†], 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[†], Borda E and Eytan R. Long distance relationships: population genetics of deep-sea fishes. *TAMUG Student Research Symposium* – Galveston, TX
- 2016 Cook A[†], 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[†], Borda E and Schulze A. Expanding the phylogeny of Archinominae (Annelida: Amphinomida: Amphinomidae). *TAMUG NSF REU Research Symposium* - Galveston, TX
- 2012 Johnson M[†], Borda E and Schulze A. *Eurythoe complanata*: more cryptic species in the Pacific? *TAMUG Student Research Symposium* – Galveston, TX **3rd 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
- 2012 Ahrens JB*, Borda E, Campbell AM[†] and Schulze A. High degree of connectivity among amphiatlantic populations of *Hermodice carunculata* (Amphinomidae, Annelida). *TAMUG Student Research Symposium* – Galveston, TX
- 2012 Nguyenba A[†], 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
- 2012 Ahrens J B*, Borda E, Campbell AM[†] and Schulze A. High degree of connectivity among amphiatlantic 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 Reviewer
2014 NSF Doctoral Dissertation Improvement Grant (DDIG) Panel
2012 NSF Phylogenetics Systematics Panel
2011 Encyclopedia of Life Rubenstein Fellowships

Journal Reviewer

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|---|---------------------------------------|
| 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 | |