

CURRICULUM VITAE

Jorge A. Santiago-Blay

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Editor-in-Chief, *Life: The Excitement of Biology*
www.blaypublishers.com

Editor-in-Chief, *Terrestrial Arthropod Reviews*

Scientific Co-Editor, Series *Research on Chrysomelidae 1-4*

Associate Editor, *Journal of Agriculture of the University of Puerto Rico*

EDUCATION

- Ph.D. University of California, Berkeley.** Department of Entomological Sciences. December 1990.
Dissertation: Systematics and some aspects of the biology of the scorpions (Arachnida: Scorpiones) of Hispaniola (Dominican Republic and Haiti), West Indies.
- M.A. University of California, Berkeley.** Department of Botany. December 1989.
- M.S. University of Puerto Rico, Río Piedras.** Biology Department. June 1985. Thesis: Systematics and some aspects of the biology of the scorpions (Arachnida: Scorpiones) from the Greater Puerto Rico Region.
- B.S. University of Puerto Rico, Río Piedras.** Biology Department. June 1979. Minors: Mathematics and Education. *Magna cum Laude*.

PROFESSIONAL EXPERIENCE

Research

National Museum of Natural History (Smithsonian Institution). Washington, District of Columbia, USA. Research Associate. Department of Paleobiology. September 1999 to present. Department of Entomology. June 1998 to December 2002. Numerous projects on living and fossil arthropod evolutionary biology. In addition, main areas of research interest of graduate students, undergraduates, and volunteers who have worked or are working with me are listed beginning on page 5, under the heading “Extended academic research guidance to graduate, undergraduate students, and volunteers”.

- University of Puerto Rico (Mayagüez Campus).** Department of Crops and Agroenvironmental Sciences. Formerly, Department of Crop Protection. Agricultural Experiment Station, San Juan, Puerto Rico. Scientific Research Assistant. July 1980 to August 1984. Adjunct Assistant Professor/Entomologist. September 1992 to 2012. Adjunct Professor. January 2013 to present. Web Site: <http://agricultura.uprm.edu/ciagro/directorio.html>
- National Zoological Park (Smithsonian Institution).** Department of Zoological Research. Washington, District of Columbia, USA. February 2000 to present. Evolutionary population biology of several Neotropical and Nearctic animals using molecular techniques.
- Academy of Natural Sciences.** Department of Entomology. Philadelphia, Pennsylvania. Research Associate. November 2004 to present.
- Roanoke College.** Department of Biology. Salem, Virginia. Assistant Professor. August 2000 to December 2001. Numerous projects (listed beginning on page 5, under heading “Extended academic research guidance to graduate and undergraduate students, and volunteers”) involving undergraduates focusing in evolutionary biology and ecology. Articles featuring my work at this institution appeared in The Brackety-Ack (Roanoke College) October 6, 2000, p. 7 and on January 18, 2002, p. 1.
- University of Chicago.** Chicago, Illinois, USA. Department of Ecology and Evolution. Research Associate. January 1996 to June 1998. Evolutionary biology and/or molecular evolutionary assessments of *Drosophila melanogaster* (Diptera: Drosophilidae) flies and congeneric species as well as of *Tribolium castaneum*, *T. confusum* (Coleoptera: Tenebrionidae) and congeneric beetles.
- University of California, Berkeley.** Department of Entomological Sciences/Department of Environmental Sciences, Policy, and Management. Research Fellow/Visiting Postdoctoral Researcher. November 1990 to October 1995. Evolutionary morphological and behavioral aspects of several chrysomelid groups, including Aulacoscelinae and *Monoxia* (Galerucinae) (Coleoptera) as well as bark beetle genera (Coleoptera: Scolytidae).
- San Francisco State University.** Department of Biology. Conservation Genetics Laboratory. Postdoctoral Fellow. August 1993 to December 1995. Molecular identification of pestiferous *Conophthorus* (Coleoptera: Scolytidae), and *Lutzomyia* (Diptera: Psychodidae) as well as beneficial insects *Trichogramma* (Hymenoptera: Chalcidoidea).
- San Francisco State University.** San Francisco, California, USA. Department of Biology. Minority High School Student Research Apprentice Program. National Institutes of Health. Summer Research Program. June - August 1993. PCR detection of transgenism in mice.
- University of California, Berkeley.** Robert D. Ogg Electron Microscope Laboratory. Staff Research Associate II; Microscopist. Prepare and study samples for Scanning Electron Microscopy (SEM). June 1989 to February 1991, March 1991 to December 1995.
- University of Puerto Rico.** Río Piedras, Puerto Rico. Biology Department. *Drosophila* Genetics Laboratory. Undergraduate Research Assistant. Fly maintenance tasks of a *Drosophila* research facility. February-May 1977, August 1977 to May 1978.

Teaching

- University of Maryland, University College (School of Undergraduate Studies, Division of Natural Sciences and Division of Social Sciences).** Adelphi. School of Undergraduate Studies. Adjunct Associate Professor (April 2003 to Summer 2010). Adjunct Professor (Fall 2010 to present). Introductory Biology (Biology101, Fall 2003 and Spring 2004); Introductory Biology Laboratory Discussion (Biology102, Fall 2003 and Spring 2004); Life in the Oceans (Biology 181, mid Fall 2003); Forensic Biology (Biology 320, Summer 2004); Global Environmental Change (Natural Sciences 361, Humanities 360, or Behavioral Sciences 361, mid fall 2004); Environmental Technology (ENMT 340, spring 2005); Bacteria and Viruses (Biology 398G, Summer 2005), Neurobiology (Biology 362, mid Fall 2005); Life Science Seminar (Biology 400, Fall 2006, Spring

2007); Bacteria, Viruses, and Health (Biology 302, Fall 2008, Summer 2009); Human Evolution and Ecology (Biology 398A, Fall 2008, Fall 2010, Spring 2011, Fall 2011, Spring 2012, Summer 2012, Fall 2012, Spring 2013, Summer 2013, Fall 2013, Spring 2014, Summer 2014); Human Health and Diseases (Biology 301, Fall 2009, Spring 2010 – twice, Fall 2010, twice Spring 2011, Fall 2011, Spring 2014, Summer 2014, spring 2015, *scheduled*); Introduction to Geography (Geography 100, Spring 2011, Fall 2011, Spring 2012, Summer 2012, Fall 2012, Spring 2013, Summer 2013, Fall 2013, Spring 2014, Summer 2014); Fermentation (Biology 398L, Spring 2012, Summer 2012, Fall 2012, Summer 2013, Fall 2013, Spring 2014); Human Genetics (Biology 220, Summer 2012); Microbiology (Biology 331, Spring 2013); Human Biology (Biology 160, spring 2015, *scheduled*).

Pennsylvania State University (PSU) (York, Pennsylvania, USA). Adjunct Instructor (Fall 2011 to the present). Mammalian Anatomy (Biology 129, Fall 2011, Fall 2012, Fall 2013, Fall 2014); Introduction to Environmental Sciences (Biological Sciences 003, Fall 2011, Fall 2012, Fall 2013, (twice, once through the VLN program, Fall 2014); Human Body: Form and Function (Biological Sciences 004, Spring 2012, Spring 2013, Spring 2014, Spring 2015); Human Physiology (Biology 141, Spring 2012), Human Physiology (Honors, Biology 141H, Spring 2012); Structure and Function of Organisms (Biological Sciences 001, Spring 2013, Spring 2014, Spring 2015); Genetics, Ecology, and Evolution (Biological Sciences 002, Fall 2013, Fall 2014); Introduction of Microbiology (Laboratory, Microbiology 107, Spring 2014); Biology: Populations and Communities (Biology 220W, Spring 2014); Independent Research for Undergraduates (Biology 496, Summer 2014); Independent Research for Undergraduates (Biology 296, Fall 2014); Genetics (Biology 320, Spring 2015, *scheduled*).

University of Puerto Rico (Mayagüez Campus). Department of Crop Protection. Agricultural Experiment Station, Río Piedras. Entomology Museum/Museo de Entomología y Biodiversidad Tropical. Scientific Research Assistant. July 1980 to August 1984. Adjunct Assistant Professor/Entomologist. September 1992 to present. Web Site: <http://agricultura.uprm.edu/ciagro/directorio.html>.

American University (Washington, District of Columbia). Department of Biology. Adjunct Associate Professor. Summer 2005. Adjunct Associate Professor/Biologist-in-Residence Fall 2005 to Summer 2006. Adjunct Professor (spring 2008 to summer 2013). General Biology II (second half Summer II 2005, Biology 210; Summer II, 2009; Summer II, 2010; Summer II, 2011; Summer II, 2012; Summer II, 2013); General Biology I (Biology 110, Honors and Post-Baccalaureate; Fall 2005); Oceanography (Biology 240, Summer II 2005); Great Experiments in Biology (Biology 100, Summers I and II, 2008; summer II, 2009; Summer II, 2010, Summer II 2012).

University of Puerto Rico (Mayagüez Campus). Department of Crop Protection. Agricultural Experiment Station, Río Piedras. Entomology Museum/Museo de Entomología y Biodiversidad Tropical. Scientific Research Assistant. July 1980 to August 1984. Adjunct Assistant Professor/Entomologist. September 1992 to present. Web Site: <http://agricultura.uprm.edu/ciagro/directorio.html>.

Gallaudet University (Washington, District of Columbia). Department of Biology. Associate Professor. Summer 2005 to Spring 2010. Introductory Biology (Biology 101, for non science majors, Fall 2005, Fall 2006, Fall 2007, Fall 2008); Laboratory of Introductory Biology (Biology 103, for non science majors, Fall 2005); Introductory Biology (Biology 102, for non science majors, Spring 2006, Spring 2007, Spring 2009); Laboratory of Introductory Biology (Biology 104, for non science majors, Spring 2008, 2010); Special Topics - Aquatic insects and water pollution (Biology 495, for biology majors, Spring 2005); Botany (Biology 332, for biology majors, Fall 2006, Spring 2008); Independent Study (Spring 2007 – Organismic Biology; Spring 2008 – Ethnobotany; Spring 2009 and Spring 2010 Behavior; Summer 2009, Fall 2009, Spring 2010 – Developmental Biology); Human Anatomy and Physiology (Biology 333, fall 2009); Invertebrate Zoology (Biology 231, fall 2008, fall

2009); Vertebrate Zoology (Biology 332, Spring 2009); Developmental Biology (Biology 499, summer 2009, fall 2009); Human Anatomy and Physiology I (Biology 333, for science majors, fall 2009); Human Anatomy and Physiology I: MCAT/PCAT preparation (Biology 333, for science majors, spring 2010); Human Anatomy and Physiology II (Biology 334, for science majors, spring 2010); Introduction to Human Biology Laboratory (Biology 105, for non-science majors, spring 2010).

Montgomery College (Takoma Park Campus). Takoma Park, Maryland. Lecturer. Spring 2005. Environmental Science [Biology 105A for non-science majors, spring 2005].

Smithsonian Institution. Monitoring and Assessing Biodiversity Program. Washington, District of Columbia, USA. Teaching Assistant. Biodiversity assessment and monitoring for adaptive management. Front Royal, Virginia. May 14 - June 16, 2000.

Roanoke College. Department of Biology. Salem, Virginia. Biology Department. Assistant Professor. August 2000 to December 2001. Terrestrial Ecology (Biology 360, Fall 2000); Ecology and Diversity Laboratory (Biology 115L, Fall 2000 and 2001); Continuity of Life (Biology 120 and Biology 120L, Spring 2001); Life on Planet Earth (Biology 101, Spring 2001); Laboratory of Life on Planet Earth (Biology 101L, Spring and Fall 2001); Introductory Biology, Human Anatomy & Physiology, and Ecology (for the Upward Bound Program, Summer 2001); Behavior (Biology 320, Fall 2001).

University of Chicago. Chicago, Illinois, USA. Biological Sciences Collegiate Division. Lecturer. "Ecología y biología de campo" [Ecology and Field Biology Biological Sciences 116:139 for science majors, course taught in Spanish, Summer (August) 1997]; Tutor and Guest Lecturer, Ecology and Evolution of Diseases (Biological Sciences 116:117, Fall 1997); Tutor for several courses in genetics (Winter 1998); Lecturer, Ecology and Evolution (Biological Sciences 116:106, Spring 1998; 116:117, 116:138, and 116:197, non-science majors, Fall 1999, non-science majors); Genetics (Biological Sciences 116:111, non-science majors, Winter 1999); Brain, Perception, and Behavior (Biology 116:124, non-science majors, Winter 1999); Evolutionary Ecology (Natural Sciences 116:106, non-science majors, Spring 1999); Comparative Biodiversity and Physiology (Biological Sciences 116:109, non-science majors, Spring 1999); Research in the Biological Sciences (Biological Sciences 116:151-152, gifted high school students taking a college course, Summer 1999).

Harry S. Truman College. Chicago, Illinois, USA. Department of Biology. Instructor. General Biology (Biology 111 for science majors; August - December 1996).

San Francisco State University and City College of San Francisco. California, USA. Instructor. National Institutes of Health. Scholars Directed Research. "Jurassic Park Revisited? Recombinant DNA and scanning electron microscopy: two techniques to examine old systematic problems." January 3-14, 1994. Associate Academic and Institutional Studies Staff. Academic Workshop in Biology. January-May 1994. Scholars Directed Research and Scholars Independent Research. June-July 1994.

City College of San Francisco. Tutor. General Biology (Biology 113 for science majors; fall 1994).

Armstrong University. Berkeley, California, USA. Instructor. Biology and Human Ecology (Biological Sciences 1-4, non-science majors, Summer and Winter 1993, 1994, Summer 1995), Physical Sciences (Physical Sciences 1-4, non-science majors, Spring and Fall 1993, 1994, Spring 1995).

College of San Mateo. San Mateo, California, USA. Adjunct Faculty. General Principles of Biology (Biology 110 for science majors, fall 1993); Introduction to the life sciences (Biology 100 science non-science majors; spring 1994).

Vista College. Department of Science and Mathematics. Berkeley, California, USA. Instructor. Introductory Biology (Biology 10, non-science majors, Fall 1991, Fall and Spring 1992-1994, Fall 1995); Principles of Ecology (Biology 13, non-science majors, Fall 1991, Fall and Spring 1992-1994, Fall 1995). [My teaching at Vista was featured in several newspapers, such as the Oakland Tribune

(November 4, 1995), Berkeley Voice (November 9, 1995), Alameda Journal, and in a Vista College promotional video.

University of California. Berkeley, California, USA. Department of Entomological Sciences. Graduate Student Instructor. Insect Classification and Diversity (Entomology 104 upper division, Spring 1990); Functional Insect Morphology (Entomology 102 upper division, Fall 1989). Department of Integrative Biology. Cytology (Zoology 110 upper division, Spring 1990).

University of Puerto Rico. Río Piedras. Biology Department. Teaching Assistant. Invertebrate Zoology (Biology 241 upper division, Fall 1979, Fall 1980); Environmental Biology (Biology 107 for science majors, Summer 1977).

Short courses taught

Biotechnology for the naive: a one-day, hands-on experience with remarks on the practical, legal, and ethical implications. Laney Community College, Peralta College District. Oakland, California, USA. January 15, 1993.

Hands-on biotechnology. 1. The basics. II. Applications in criminal justice and biology. Santiago-Blay, J. A. and Y. Yeh. January 13, 1995. Merritt College. Oakland, California, USA

Extended academic research guidance to graduate, undergraduate students, and volunteers (affiliation when working with me parenthesized). Main area of research interest follows name (or affiliation). Additional information available upon request.

National Museum of Natural History (Smithsonian Institution). Washington, District of Columbia, USA. Department of Paleobiology. Megan Adcock (Bennington College, Vermont) Preparation and study of Arkansas (USA) amber, archival of *Drosophila melanogaster* wing images, variability of scorpion trichobothriotaxy (January and February 2003); Charlotte Aldebron (Washington, District of Columbia) Preparation and study of *Ginkgo biloba* plants (May 2013 to present); Allison Armocida (University of Maryland, Baltimore Campus, Maryland, USA) Variability of scorpion trichobothriotaxy (May – August 2003); Rama Assaf (Montgomery College, Silver Spring, Maryland, USA) Paleobiology (May to August 2004); Judy Barr (Holton-Arms School, Bethesda, Maryland, USA) Paleobiology (July and August 2004); William Bell (Episcopal High School, Alexandria, Virginia) Archival of *Drosophila melanogaster* wing images (May 2003); Keshuan Blunt (Corcoran College of Art and Design, Washington, District of Columbia) Biological Illustration (September 2002 to April 2005); Brittany Branch-Smith (Gallaudet University) Reproductive isolation in *Drosophila melanogaster*: data entry and analyses (September to November 2009); Jinghong Cai (VIARC, Smithsonian Institution, Washington, District of Columbia), Scientific Translations (May – August 2011); Terrie Chan (Washington, District of Columbia) Arkansas amber (October 2012 to present); Audrey Chin (Rockville, Maryland) Plant exudates (June 2009 to present); Nicholas J. Chung (Westfield High School, Centerville, Virginia) Digitizing images of fossils (June to September 2005, an image of Mr. Chung at work in one of our projects was published in The Torch (A monthly magazine for Smithsonian Institution Staff), 06-01 January 2006, S-7); Marta Cruz (Bell Multicultural High School, Washington, District of Columbia) Databasing museum specimens (March 2004); Jorvan D’Arcy (Panamá City, Panamá) Arkansas amber (October 2012 to November 2012); Kelly Davison (Montgomery College, Rockville, Maryland, USA) Digitizing images of hellgrammites (February to May 2006); Vashti Dean (Manassas, Virginia) Arkansas amber (October 2013 to present); Artem Dementyev (Montgomery College, Rockville, Maryland, USA) Digitizing Sundance fossil collection and images of hellgrammites (December 2005 to October 2006); Heather Drought (Silver Spring, Maryland, USA) Arkansas amber (September 2013 to present); Alex Duffy

(McLean High School, McLean, Virginia) Paleobiology (January 2003); Alexandra Edmondson (Washington, District of Columbia) Arkansas amber (October 2013 to present); Alisha Fahey (Department of Biology, Gallaudet University, Washington, District of Columbia, USA), Arkansas amber and data analysis of herbivorous insect feeding preferences (September 2010 – May 2011); Kathleen Fairchild (McLean, Virginia, USA) Organization of digital files (May 2011 to present); Gloria Friar (Program for Deaf and Hard of Hearing of Prince George's County, Maryland, housed at Thomas Claggett Elementary School in District Heights, Upper Marlboro, Maryland, USA) Preparation and study of Arkansas (USA) amber, digitizing and editing of scientific images (December 2002 to 2008, an image of Ms. Friar at work in one of our projects was published in *The Torch* (A monthly magazine for Smithsonian Institution Staff), 06-01 January 2006, S-7); Fahimeh Feryrahi (Arlington, Virginia) Arkansas amber (October 2012 to present); Robert J. Fury (Behind-the-Scenes Volunteer Program, Smithsonian Institution, Washington, District of Columbia), Scientific Translations (Summer 2003); Aviva Glaser (Oberlin College, Ohio) Preparation and study of Arkansas (USA) amber, archival of *Drosophila melanogaster* wing images (January 2003); Rebecca Glazer (James Madison High School, Vienna, Virginia) Curating museum specimens (September 2003 to April 2004); Christine Galvagna (Bennington College, Vermont) History of Science (January and February 2004); Shane Guan (Fish and Wildlife Service, Arlington, Virginia) Scientific Translations (Summer 2002); Lester Guthrie (Montgomery College, Rockville, Maryland, USA) Databasing museum specimens (April 2003 to April 2004); Bridget Hansen (George Washington University, Washington, District of Columbia) Databasing museum specimens (March – May 2004); Deron Hogans (Bishop McNamara High School, Forestville, Maryland) Image museum specimens (July and August 2005); Miako Hsu (VIARC, Smithsonian Institution, Washington, District of Columbia), Scientific Translations (May-June 2003, May-August 2011); David Iyata (Corcoran College of Art and Design, Washington, District of Columbia) Biological Illustration and digitizing fossil images (February to November 2006); Rosanne D'Aprile Johnson (VIARC, Smithsonian Institution, Washington, District of Columbia) Scientific Translations (June-July 2004, October 2005, February to April 2007); Katherine Kan (William H. Hall High School in West Hartford, Connecticut, USA) Variability of scorpion trichobothriotaxy (July and August 2003); Joshua Kaplan (American University, Washington, District of Columbia) Fossil record of insect plant interactions in the Mesozoic (July 2008 to May 2010); Kirkland Kenney (Bennington College, Vermont) History of Science (January and February 2004); Jessica Kern (Washington, District of Columbia, Virginia) Preparation and study of Arkansas (USA) amber (October 2012); Jessica Kern (Arlington, Virginia) Arkansas amber (October 2012 to present); Young (Jennice) Kim (Corcoran College of Art and Design, Washington, District of Columbia) Biological Illustration and digitizing fossil images (February 2006 to 2007, exact termination date unknown); Jennifer King (Baltimore, Maryland) Biological Illustration (November 2009 to March 2010); John Victor Lee (Washington, DC) Arkansas amber (March 2013 to present); Derek Kohler (Penn State University, York, PA) May 2012 to present; Julia K. Louie (University of Maryland, College Park, Maryland, USA) Databasing museum specimens and scientific photography (January 2004 to April 2005); Erin McCabe (Springfield, Virginia) Arkansas amber (December 2012 to April 2013); Shuhei Matsuyama (Corcoran College of Art and Design, Washington, District of Columbia) Biological Illustration and digitizing fossil images (April to December 2005); Suzanne McIntire (Arlington, Virginia) Databasing museum specimens and scientific photography (July 2004 to April 2005); William McIntire (Franklin and Marshall College, Lancaster, Pennsylvania) Databasing museum specimens and scientific photography (August 2004); Audra Medve (Woodbridge, Virginia) Preparation of Arkansas amber, digital imaging (September 2009 to March 2010); Joyce Meng (Thomas Jefferson High School for Science and Technology, Alexandria, Virginia) Variability of scorpion trichobothriotaxy (July - September 2003); Erica Miller (Purcellville, Virginia) Arkansas amber and

Herbivores of *Ginkgo* (July 2012); Jeremy Mirmelstein (University of Maryland, College Park, Maryland, USA) graphic preparation for paleobiological projects (October 2004 to January 2005); Ciro Monaco, Jr. (Gaithersburg, Maryland) data entry for paleobiological projects (January to December 2010); Sara Montgomery (Gallaudet University) Science Education (October to December 2005); Carmen Montopoli (School Without Walls High School, Washington, District of Columbia, USA) Databasing museum specimens and scientific photography (June 2004 to January 2005); Amber Moore (Bennington College, Bennington, Vermont, USA) Digitizing Sundance fossil collection (December 2005 to February 2006); Emilie Moskal (VIARC, Smithsonian Institution, Washington, District of Columbia) Scientific Translations (July-September 2007); Johanna Mueller, Biological Illustration (May to November 2009, August to December 2010); Kara Newhouse (American University) Curation of entomological collections for research (February to May 2006); Nadine L. Siak (VIARC, Smithsonian Institution, Washington, District of Columbia), Scientific Translations (July-August 2011); Courtney Nugent (Gallaudet University) Reproductive isolation in *Drosophila melanogaster*: data entry and analyses (September 2009 to April 2010); Yen T. Nguyen (Fairfax, Virginia, USA) Databasing museum specimens and scientific photography (June 2004 to January 2005); Jessi O'Neill (George Mason University, Arlington, Virginia) Scientific Editing (November 2004 to April 2005); Michael Pratt (Winston Churchill High School, Potomac, Maryland) Preparation of Arkansas amber (March - April 2010); Peter Arthur Peltier (Gaithersburg, Maryland, USA) Digital imaging of fossils and texts (November 2005 to present); Maria Taya Pidone (New Market, Pennsylvania) Arkansas amber and digital image processing (January 2012 to present); Sarah E. Pivo (Georgetown University, Washington, District of Columbia) Digital photography of fossils (February to May 2005); Kate Puffenberger (VIARC, Smithsonian Institution) Scientific Translations (April and May 2006); John Ray (McLean High School, McLean, Virginia) Paleobiology (January 2003) Curating museum specimens; Muhammad Rubaiyat (Gallaudet University) *Anadenobolus arboreus* millipedes (January to May 2009); Bethany Sadlowski (Arlington, Virginia) Scientific Editing (July 2003 to July 2004); Teresa Sala-Rueda (Arlington Virginia) Data entry (November 2009 to August 2010); Adrian Schneck (Corcoran College of Art and Design, Washington, District of Columbia) Digitizing biological images (September 2003 to December 2004); Katherine Schuler (Corcoran College of Art and Design, Washington, District of Columbia) Biological Illustration (September 2003 to April 2005), two of the illustrations Ms. Schuler produced as part of her work with me were selected for exhibit at the 2005 Guild of Natural Sciences Illustrators (GNSI), Portland, Oregon, USA; Amy Seager (Takoma Park, Maryland) Preparation of Arkansas amber, digital imaging (September 2009 to January 2010, July to December 2010); Riikka Seppala (School Without Walls High School, Washington, District of Columbia, USA) Databasing museum specimens and scientific photography (February 2005 to July 2005); Suzanne C. Shaffer (Pennsylvania State University, York, Pennsylvania), Scientific Editing (August 2002 to present); Paris So (Arlington, Virginia) Arkansas amber (October 2012 to June 2013); Josh A. Spiro (University of Maryland, College Park, Maryland) Archival of *Drosophila melanogaster* wing images (January to May 2003); Angela Stravropoulos (Behind-the-Scenes Volunteer Program, Smithsonian Institution, Washington, District of Columbia), Scientific Translations (Summer 2003, May-June 2011); Anna Thorn (James Madison High School, Vienna, Virginia) Curating museum specimens (October 2003 to April 2004); Benjamin Tolman (Corcoran College of Art and Design, Washington, District of Columbia) Biological Illustration (September 2004 to May 2005); Adam Toy (Buffalo State College, New York, USA) Science Education (June to August 2003); Bettina Wagner (VIARC, Smithsonian Institution) Scientific Translations (March 2008); Benjamin Walton (Washington, District of Columbia) Arkansas amber (October 2013 to present); Steven P. Warner (McLean, Virginia, USA) Arkansas amber (May 2011 to present); Darcy A. Whitten (Monterey Farm, Monterey, Massachusetts, USA) Biological Illustration (summer 2002 to March 2003, in

collaboration with Mary E. Parrish); Randolph Williams III (Corcoran College of Art and Design, Washington, District of Columbia) Biological Illustration and digitizing fossil images (February to October 2006); Sarah Wyatt (College of William and Mary, Williamsburg, Virginia) Variability of scorpion trichobothriotaxy (June to August 2003); Nobuaki Yasunaga (VIARC, Smithsonian Institution, Washington, District of Columbia), Scientific Translations (July-August 2011); Sachiko Yasunaga (VIARC, Smithsonian Institution, Washington, District of Columbia), Scientific Translations (July-August 2011); Lauren Zarzar (Thomas Jefferson High School for Science and Technology, Alexandria, Virginia) Variability of scorpion trichobothriotaxy (August 2003).

Pennsylvania State University (PSU) (York, Pennsylvania, USA). Chelsey Bryant (Poor House Run, York, Summer 2014), Abigail Donieki (Poor House Run, York, Fall 2014), Daved Fouad (Poor House Run, York, Fall 2014), Rajeev Joshi (Poor House Run, York, Fall 2014), Taylor Mandara (Poor House Run, York, Fall 2014), Merna Mekail (Poor House Run, York, Fall 2014), Brandon Merkert (Poor House Run, York, Summer 2014), Goral Patel (Poor House Run, York, Fall 2014), Aruba Tariq (Poor House Run, York, Fall 2014), Nichole Wrobel (Characterization of two mutations in C-fern, Summer 2014),

Gallaudet University. Tiffany Martinez (September 2008 to May 2010), Rachael Robbins (with Jane Dillehay, Spring 2008 to Fall 2009), Muhammad Rubaiyat (Fall 2007 to Spring 2009), Benjamin Taylor (Fall 2009 – Spring 2010).

University of Maryland (University College). School of Undergraduate Studies. Adelphi. Adjunct Associate Professor. April 2003 to summer 2010. Member of Prior Learning Portfolio Assessment Committee (EXCEL, EXCL301) of: Shawn C. Belton (spring 2006), Jeffrey J. Croslen (spring/summer 2006), Edmund French (fall 2007), David Galluzzo (June 2009), Joann Horstkamp (spring 2004), Steven C. Kauffman (fall 2007), Callahan J. Jones III (fall 2005), Robert Leiby (fall 2003), Linda H. Nash (summer 2006), Nicholas P. Roy (spring 2009), Kelly Saxon Williams (summer 2004), Nena Wells (summer 2008), and Jeffrey Zuckerman (spring 2005).

University of Maryland (University College). School of Undergraduate Studies. Adelphi. Adjunct Professor. Fall 2010. Faculty Mentor for the UMUC Cooperative Education Program. Champa Golden (University of Maryland, University College, Adelphi, Maryland, USA) herbivorous damage in Yorkshire Biota (England) (August to December 2010).

Roanoke College. Department of Biology. Salem, Virginia. Jamie M. Bowen, Forensic Ecology (Spring 2001 and Fall 2001); Heather E. Casler, Environmental Ethics (Spring 2001); Michael E. Cinkala, Chemical Ecology (Spring 2001, in collaboration with Gary Hollis, Department of Chemistry); Goo-Syl Han, Paleobiology (Summer and Fall 2001); Melissa L. Henrickson, Biology Education (Spring 2001); Leslie A. Jones, Plant Developmental Genetics (Summer 2001); Sarah E. Morrow, Environmental Ethics (Fall 2001); Amanda C. Naglic, Theoretical Evolutionary Biology (Spring 2001); Laura T. Ngo, Evolutionary Ethology (Summer and Fall 2001); Christie L. Richards, Cytogenetics (Spring 2001); Christine E. Taylor, Aquatic Ecology (Spring and Summer 2001, Honors Thesis); Alessandra T. Thomas, Biology Education (Spring 2001); and Brian C. Wilson, Aquatic Ecology (Fall 2000 to Fall 2001). Also, Member, Honor's Thesis Committee of Melissa Keller, Conservation Biology (Fall 2001).

University of Chicago. Department of Ecology and Evolution. Co-directed Peter Chang and Elizabeth Lehman in evolutionary genetics research on *Tribolium* beetles (in collaboration with Michael Wade). August 1997 to May 1998.

University of Regina. Department of Biology. Saskatchewan, Canada. May 1995. External Member, Master's Thesis Committee. Braden D. Walters. Chemoreceptors on proboscis of *Choristoneura fumiferana* (Lepidoptera: Tortricidae). 45 pp.

San Francisco State University. Department of Biology. 1995. Co-directed several undergraduates (Claudia Ayala, Robina Carter-Morton, San San Ma, Mel Manalo, Anh (Darrin) Ngo, Jaina Sumortin,

Doreen Victoria, Mahari, Mai-Chi, Travis Young, and Nga) in molecular identification of pestiferous insects.

University of California, Berkeley. Department of Entomology/ESPM-Entomology and San Francisco State University, Department of Biology, California, USA. 1990 to October 1995, January 1994 to December 1995, respectively. Assisted several graduate students (Richard Brown, Leslie Casher, Laura Merrill, and Raina Takumi) and undergraduates, on their research projects, particularly using the scanning electron microscopy, molecular genetics, as well as in manuscript and grant preparation.

Curatorial

National Museum of Natural History (Smithsonian Institution). Washington, District of Columbia, USA. Research Associate. Department of Entomology. June 1998 to December 2002. Department of Paleobiology. September 1999 to present.

Field Museum of Natural History. Chicago, Illinois, USA. Department of Zoology. Division of Insects. Research Associate. April 1996 to April 2001.

University of California, Berkeley. Essig Museum of Entomology, Department of Entomological Sciences. Research Assistant. September 1986 to August 1987. University Herbarium, Department of Botany. Summer 1986

University of Puerto Rico (Mayagüez Campus). Department of Crop Protection. Agricultural Experiment Station, Río Piedras. Museum of Entomology and Tropical Biodiversity / “Museo de Entomología y Biodiversidad Tropical”. Scientific Research Assistant. July 1980 to August 1984. Adjunct Assistant Professor. September 1992 to present.

Academic Administrative

Vista College. Berkeley, California, USA. Chair. Department of Science and Mathematics. March 1994 to January 1996. Curriculum Developer (Biotechnology). March-August 1992.

University of Chicago. Program Director. Research in the Biological Sciences (RIBS). June and July 1999.

Gallaudet University. Coordinator of Introductory Biology (Biology 101-102). July 2008 to May 2010.

EDITORIALSHIPS

Editor-in-Chief and Owner. Life: The Excitement of Biology. March 2012 to present.

Editor-in-Chief. Terrestrial Arthropod Reviews. E. J. Brill, The Hague, The Netherlands. Summer 2007 to the present. <http://www.brill.nl/tar><http://www.brill.nl/tar>

Scientific Co-Editor. Research on Chrysomelidae (<http://www.brill.nl/default.aspx?partid=227&pid=26043>). First book and Volumes 1-2. E. J. Brill, The Hague, The Netherlands. Volume 3. Pensoft. Sofia, Bulgaria [See Beenen, R. (2012) Entomologische Berichten 72(3):207-208 for a review of volume 3]. Tentative publication year for Volume 4 is 2014. January 2006 to the present.

Associate Editor. Journal of Agriculture of the University of Puerto Rico (College of Agricultural Sciences, Mayagüez Campus). June/July 2006 to present.

Co-Editor. New developments in the biology of Chrysomelidae. P. Jolivet, J. A. Santiago-Blay, and M. Schmitt (Editors). SPB Academic Publishers bv. The Hague, The Netherlands. 803 pp. June 2001 to April 2004.

Editor. Entomological News. Published by the American Entomological Society headquartered at the Academy of Natural Sciences of Philadelphia, Pennsylvania, USA. November 2003 [Volume 114(1)]

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91. **Santiago-Blay, J. A.** and J. B. Lambert (with the photography of Dr. Michael Wise). 2013. Keeping an eye open for amber and plant exudates. NMNH Geoscience, Newsletter of the Department of Mineral Sciences. Smithsonian National Museum of Natural History [Washington, DC, USA] 3(4):4.
92. **Santiago-Blay, J. A.** 2013. Keeping an eye open for plant exudates and amber. *The Plant Press* (New Series) Department of Botany and the U. S. National Herbarium. National Museum of Natural History, Smithsonian Institution, Washington, DC). 16(2):7.
93. **Santiago-Blay, J. A.** 2013. Motivation. Teaching & Learning @ PSY Newsletter. Summer 2013. <http://www2.yk.psu.edu/sites/teachingnewsletter/summer-2013/motivation/>
94. Azar, D, M. S. Engel, E. Jarzembowski, L. Krogmann, A. Nel, and **J. A. Santiago-Blay**. 2013. Selected papers from the 6th International Congress on Fossil Insects, Arthropods and Amber. Byblos, Lebanon, 14-18 April 2013. *Terrestrial Arthropod Reviews* 6(1):1-9.
95. **Santiago-Blay, J. A.** 2013. The Arkansas amber collection in the Department of Paleobiology of the NMNH. *The Fossil Record* (The Department of Paleobiology Newsletter) 23(2):9-10.
96. **Santiago-Blay, J. A.** 2013. Book Reviews. Book Reviews: *The Tangled Bank: An Introduction to Evolution* by Carl Zimmer; *The Story of the Human Body. Evolution, Health and Disease* by Daniel E. Lieberman; *Bugs Rule! An Introduction to the World of Insects* by Whitney Cranshaw and Richard Redak, and *Guía de Árboles de Puerto Rico* by Félix Rivera Montalvo. *Life: The Excitement of Biology* 1(4):241-251.
97. **Santiago-Blay, J. A.** 2014. From the desk of the Editor-in-Chief. During the last six years, *Terrestrial Arthropod Reviews* has been a broadly scoped, peer reviewed scientific journal emphasizing arthropod ecology, evolution, and systematics. *Terrestrial Arthropod Reviews* 7(1):1-2.
98. [**Santiago-Blay, J. A.**] 2014. Modern Plant Exudates, Copal, and Amber: A Request. *SENCER* (Science Education for New Civic Engagement and Responsibilities, National Center for Science and Civic Engagement, Washington, District of Columbia, USA) 14(19):8-9. <http://www.sencer.net/About/documents/September24.pdf>
99. Thijssen, M. and J. A. Santiago-Blay. 2014. A heartfelt farewell to the readers and friends of *Terrestrial Arthropod Reviews* 7(2-4):. (in press).

Exhibits and Published Interviews

1. **Santiago-Blay, J. A.** and P. R. Craig. 1999. "Amber: a window to the past". An exhibit at the John Crerar Science Library. University of Chicago. May 3 to September 31, 1999. Also, with Poinar, G. O., Jr. and **Santiago-Blay, J. A.** 1991. "Amber: a window to the past". Paleontology at Berkeley. Legacy in transition. An exhibit at The Bernice Layne Brown Gallery. Main Library. University of California, Berkeley. February 7 to March 31, 1991. A similar exhibit, using Santiago-Blay's and Craig's materials, was presented, under the title "Ámbar: una ventana al pasado" at the Museo de Entomología y Biodiversidad Tropical" of the Agricultural Experiment Station, University of Puerto Rico in Río Piedras from May to August 2000; also at Casa Roig (Humacao, Puerto Rico) from September to November 2000; Lizard Room, Mama Lizardo's (Floyd, Virginia) from May 2002 to November 2002; Washburn Arts Center, Gallaudet University (Washington, District of Columbia) September 20, 2005.
2. Gambino, M. 2011. On the goo patrol. Seeking the origins of amber. *Smithsonian Magazine* 42(4):27, 30. <http://www.smithsonianmag.com/arts-culture/Seeking-the-Origins-of-Amber.html>
3. Hacker Birchfield, C. 2011. Department of Geology and Geography hosts Smithsonian expert. Smithsonian expert visits Arboretum. E-journey. (Auburn University College of Sciences and Mathematics). A newsletter of Friends of COSAM. June/July 2011. [http://auburn.edu/cosam/news/e-journey/](http://auburn.edu/cosam/news/e-journey/http://auburn.edu/cosam/news/e-journey/)

4. González-Espada, W. J. 2011. Romance de Boricua con el ámbar. El Nuevo Día (Ciencia). Tuesday, October 18, 2011. p. 51. La Semana October 2011.

**Invited Lectures and Oral Presentations in Professional Meetings
(Unless otherwise specified, all lectures given by Santiago-Blay alone)**

1. The scorpions of Puerto Rico. Department of Entomology, California Academy of Sciences. San Francisco, California, USA. October 1981. Also in 1982 at the University of Puerto Rico. Río Piedras (Guest lecture for the course Terrestrial and Freshwater Invertebrates of Puerto Rico "Invertebrados terrestres y fluviales de Puerto Rico". March 1984. Department of Biology. University of Puerto Rico. Bayamón and Inter-American University, Bayamón, Puerto Rico, both under the title, "Los escorpiones de Puerto Rico".
2. Evolutionary speciation mechanisms: Examples from Caribbean scorpion biogeography and from *Monoxia*, a Nearctic, endophagous leaf beetles. January 4, 1993. Department of Entomology, University of Massachusetts. Amherst, Massachusetts, USA. Also on April 12, 1993. Department of Biology, University of Puerto Rico. Río Piedras.
3. "Souvenirs Entomologiques": six short stories about the life of bugs, or the value of natural history in modern organismic biology. February 15, 1994. Department of Biology, City College of San Francisco. California, USA
4. "Los niños en la biología moderna" (Children in modern biology). With C. Orrego. July 12, 1994. Puerto Rican Teacher Institute. Mills College. Oakland, California, USA
5. Toward an integrated approach in organismic biology research: examples from the insect world. January 12, 1995. California State University. Hayward, California, USA
6. "Grandpa, tell us more stories about bugs". February 7, 1995. Department of Biology, City College of San Francisco, San Francisco, California, USA.
7. Natural history of arachnids. Guest Lecture. *In*, Natural history of insects (Entomology 10). February 13, 1995. University of California. Berkeley, California, USA. Department of Environmental Sciences, Policy, and Management.
8. Systematics, biodiversity, and the unity of evolutionary biology. March 7, 1995. Department of Entomology, University of Georgia. Athens, USA
9. Biodiversity: New concerns and modern tools. April 6, 1995. Talk for undergraduates and teachers at Monte Vista High School. Danville, California, USA
10. From the molecules to ecology: an integrative approach towards biological research and teaching. May 22, 1995. Department of Biology, Marshall University. Huntington, West Virginia, USA.
11. "Avispillas *Trichogramma*, moscas *Lutzomyia* y escarabajos *Conophthorus*: Técnicas moleculares para la identificación confiable de insectos plagas". (*Trichogramma* wasps, *Lutzomyia* flies, and *Conophthorus* beetles: Molecular tools for reliable identification of pestiferous insects.) November 22, 1995. Crop Protection Department, University of Puerto Rico. Mayagüez. Also under the title "Molecular tools for reliable identification of pestiferous insects". March 22, 1996. Biology Department. Indiana University of Pennsylvania. Indiana, Pennsylvania, USA.
12. Evolutionary patterns and processes in leaf beetles. December 6, 1993. Department of Biology, University of Texas. El Paso. Also on April 5, 1994. Department of Biology, Southern Oregon State College. Ashland. Also on February 13, 1996. Department of Biology. Albion College. Michigan, USA
13. Evolutionary biology as a bridge between organismic and molecular biology. March 14, 1996. Department of Biology. California State University. San Marcos, California, USA
14. Themes in the evolutionary biology of chrysomelids: a personal voyage of discovery. June 10, 1996. Department of Entomology. United States Department of Agriculture (National Museum of Natural History). Washington, District of Columbia, USA

15. "Puerto Rico: Un laboratorio tropical para el estudio de historia natural, ecología y evolución". (Puerto Rico: A tropical laboratory for the study of natural history, ecology, and evolution.) August 27, 1996. Crop Protection Department, University of Puerto Rico, Mayagüez. Also on August 28, 1996. Department of Biology. InterAmerican University of Puerto Rico. San Germán, Puerto Rico.
16. "Let's play with the flies": *Drosophila* flies as a flexible and simple biological model for elementary and junior high school kids. May 1, 1997. Talk for undergraduates and teachers of Hartigan School (Chicago, Illinois, USA) given at the Research Institute, University of Chicago.
17. Novel insights into the process of speciation: A multidisciplinary approach. September 16, 1997. Biology Department. Hope College. Holland, Michigan, USA. Also on October 20, 1997. Department of Biology. Buffalo State College. New York, USA
18. Natural history stories on some herbivorous insects or "The fact that you know botany makes a big difference". November 7, 1997. TGIF Series. Departments of Organismic Biology and Anatomy and Ecology and Evolution, University of Chicago.
19. Course web pages. Survey of course web pages being used in college anatomy and physiology classes. Anatomy and physiology. March 7, 1998. Biology Department. Hope College. Holland, Michigan, USA. (Presented as part of workshop on Computer-assisted instruction in anatomy and physiology courses. March 6-8, 1998. Biology Department. Hope College. Holland, Michigan, USA)
20. Processes and patterns of speciation: An interdisciplinary approach. March 9, 1998. Department of Biology. Indiana University Southeast. New Albany, Indiana, USA.
21. Coevolution or the adaptationist Panglossian paradigm? The case of the antennal pockets of the cycad-pollinating weevil, *Rhopalotria mollis* Sharp (Coleoptera: Curculionidae). April 6, 1998. Department of Biology. University of Texas, PanAmerican. Edinburg.
22. Exciting wonders of the living world: from fossils and cells to extant biota and biogeography. April 17, 1998. Phoenix (University of Chicago Students' Association) Series. University of Chicago.
23. From molecules to ecosystems, from extinct to extant, and from the non-insect hexapodans to the Hymenoptera: Toward a concept-oriented and integrated practice to entomology. November 9, 1998. Department of Biology. Northern Michigan University. Marquette, Michigan, USA
24. New insights into primitive hexapodan evolution, arthropod paleodiversity and biogeography, as well as coevolution. a) January 26, 1999. Department of Biology, University of Illinois. Chicago, USA. Also on: b) March 11, 1999. Department of Natural Science, Universidad de Puerto Rico. Utuado; c) Department of Biology, Universidad de Puerto Rico. Humacao. d) March 12, 1999. Department of Crop Protection, University of Puerto Rico. Mayagüez. e) Department of Biology, InterAmerican University. San Germán. f) March 15, 1999. Department of Biology, University of Puerto Rico. Río Piedras. g) February 16, 2000. Paleontological Society of Washington (Meeting held at the Department of Paleobiology, National Museum of Natural History, Washington, District of Columbia). h) March 13, 2000. Gem, Lapidary, and Mineral Society of Montgomery County, Maryland, Inc. (Rockville, Maryland, USA). i) March 20, 2000. Biology Department, Roanoke College. Salem, Virginia. j) April 7, 2000. Department of Natural Sciences, InterAmerican University. Ponce, Puerto Rico. k) Department of Natural Sciences, University of Puerto Rico. Ponce. l) April 8, 2000. Upward Bound – Science and Mathematics Program of the InterAmerican University (Ponce, Puerto Rico) (Given at the Centro Vacacional de Maricao, Puerto Rico). m) April 10, 2000. Department of Natural Sciences, InterAmerican University. Bayamón, Puerto Rico. n) April 12, 2000. Department of Natural Sciences, InterAmerican University. Aguadilla, Puerto Rico. o) April 13, 2000. Department of Biology, University of Puerto Rico. Cayey. p) Department of Natural Sciences, InterAmerican University. Barranquitas, Puerto Rico. q) April 25, 2000. Department of Ecology and Evolution, The University of Chicago. Illinois, USA) September 7, 2000. Smokey Mountains Mineral Society, Inc. Newport, Tennessee. s) October 9, 2000. Shenandoah Valley Gem and Mineral Society. Waynesboro, Virginia. t) October 12, 2000. Elderscholar Program (Roanoke College, Salem,

- Virginia) under the title “So you think you are old? Wait until you hear about my bugs!” u) October 29, 2000. Gem and Mineral Show Symposium, Gem and Mineral Society of Lynchburg, Inc., Lynchburg College. Virginia. v) November 17, 2000. Tishomingo County High School (Iuka, Mississippi, USA). w) Jackson State Community College. Savannah, Tennessee. x) Department of Biology, University of Northern Alabama. Florence, Alabama, USA. y) December 1, 2000. Department of Botany, Virginia Tech. Blacksburg, Virginia. z) March 27, 2002. Biology Department, The College of Wooster, Ohio. aa) January 31, 2003. Department of Conservation Biology, National Zoological Park. bb) February 18, 2003. Department of Geology, Geography, and Physics, University of Tennessee, Martin. cc) February 21, 2003. Pacific Entomological Society, at the California Academy of Sciences, San Francisco, California, USA. dd) March 27, 2003. Department of Geology, University of Buffalo at Amherst, New York, USA. ee) March 31, 2003. Naturalist Center, Smithsonian Institution (Leesburg, Virginia), under the title “Recent findings about the evolution of insects”. ff) August 7, 2003. Academy of Natural Sciences of Philadelphia. gg) August 18, 2003. Department of Natural and Environmental Resources, San Juan, Puerto Rico. hh) Department of Natural Science, Universidad de Puerto Rico. Utuado. ii) August 20, 2003. Department of Biology, University of Puerto Rico. Río Piedras. jj) April 20, 2004. Department of Biology, Towson University. Maryland, USA. kk) April 26, 2004. Department of Biology, University of Houston – Downtown. ll) August 2, 2004. Department of Science, Engineering, and Technology, Pennsylvania State University (Capitol Campus) Schuylkill Haven, Pennsylvania. ll) September 30, 2004. Department of Science & Allied Health. Cheyney University of Pennsylvania (Cheyney, Pennsylvania), mm) Hydrology Division, United States Geological Survey, United States Department of the Interior (Guaynabo, Puerto Rico) “Nuevos descubrimientos acerca de la evolución de los hexápodos primitivos, la paleobiodiversidad de los artrópodos paleodiversity y su posible coevolución”; nn) Universidad del Sagrado Corazón InterAmericana, (San Juan, Puerto Rico) January 31, 2005 “Nuevos descubrimientos acerca de la evolución de los hexápodos primitivos, la paleobiodiversidad de los artrópodos paleodiversity y su posible coevolución”. oo) March 8, 2005, Department of Natural Sciences and Engineering Technology, Point Park University, Pittsburgh, Pennsylvania; pp) March 16, 2005 Department of Biology, Kent State University, Kent, Ohio; qq) March 28, 2005 Department of Biology, University of Wisconsin, Stevens Point; rr) November 20, 2012 Universidad Inter-Americana (Aguadilla, Puerto Rico).
25. Flora and fauna of Puerto Rico. July 22, 1999. Segundo Ruiz Belvis Cultural Center. Chicago, Illinois, USA.
 26. Some thoughts on coevolution. May 23, 2000. Smithsonian Institution. Monitoring and assessing biodiversity program. Biodiversity assessment and monitoring for adaptive management. Front Royal, Virginia. May 14 - June 16, 2000.
 27. Wonders of Amber. Gem and Mineral Show. Smokey Mountains Mineral Society, Inc. Newport, Tennessee. November 10, 2000. Described in Rockhound Roundup. Newsletter of the Smokey Mountain Mineral Society Inc. of Newport, Tennessee. 12(12). November 21, 2000.
 28. The excitement of biology: some stories about bugs. November 30, 2000. Biology Department. Roanoke College. Salem, Virginia, USA.
 29. Modern technology can help decipher the past stored in fossils. Front Burner. Roanoke College. Salem, Virginia, USA. February 16, 2001.
 30. Wilson, B. C., C. E. Taylor, and **J. A. Santiago-Blay**. 2001. Water quality and benthic macroinvertebrate biodiversity of the Snyder’s Branch Creek (Salem, Virginia). *In*, Upper Roanoke River Roundtable Watershed Conference. Workshop G. Initiatives within the Roanoke River Basin. August 24 and 25, 2001. Virginia’s Explore Park. Roanoke County, Virginia. Also: b) November 16, 2001. Environmental Impact Assessment (ENVI-305) Roanoke College, Virginia. c) August 12, 2003. 11th International Symposium on Chironomidae (Department of Entomology, University of

- Minnesota, St. Paul, Minnesota, USA); d) Water quality and benthic macroinvertebrate biodiversity of the Snyder's Branch Creek (Salem, Virginia). Oral presentation in Ms. Mary Thumann's course, Interpretation 748 (English to ASL Simultaneous Interpretation II, Monologues) October 26, 2006; e) April 13, 2010, Interdisciplinary Unit, University of Maryland, Baltimore County; f) March 8, 2013, Department of Biology, Universidad del Turabo, Ana G. Méndez (Gurabo, Puerto Rico); g)
31. **Santiago-Blay, J. A.** and S. Anderson. 2001. Fossils & Amber – Jurassic Era Revisited! Family Weekend. 2001. Roanoke College. Salem, Virginia. September 15, 2001.
 32. Jones, L. and **J. A. Santiago-Blay**. 2001. Characterization of bubbles in the hermaphroditic gametophytes of *Ceratopteris richardii*. Jessie Ball DuPont Oral Presentations. Randolph Macon Women's College (Lynchburg, Virginia, USA). September 15, 2001.
 33. Ngo, L and **J. A. Santiago-Blay**. 2001. What do *Drosophila melanogaster* females really want from males? The "forbidden path" hypothesis or why are wing reduction (= brachyptery) or wing absence (= aptery) more common on female insects than on male insects. Jessie Ball DuPont Oral Presentations. Randolph Macon Women's College (Lynchburg, Virginia, USA). September 15, 2001.
 34. Han, G-S. and **J. A. Santiago-Blay**. 2001. The flora and community ecology of two Jurassic lithographic limestone formations in North America. Roanoke College (Salem, Virginia, USA) Summer Scholar Presentations. September 15, 2001. (Poster). Web Site: <http://www.roanoke.edu/SummerScholars/past.htm>.
 35. The wonderful world of plants. October 4, 2000. Elderscholar Program (Roanoke College, Salem, Virginia, USA).
 36. Plant exudates or the gooey stuff that plants ooze: History, uses, and chemistry. a) Holden Arboretum. Kirtland, Ohio, USA. March 28, 2002. b) National Arboretum. Washington, District of Columbia, USA, May 30, 2002. c) Department of Earth Sciences, University of Memphis, Tennessee, USA. September 9, 2002. d) Department of Biology, City College of San Francisco, California, USA, September 17, 2002. e) Department of Biology. West Chester University, Pennsylvania, USA. October 7, 2002. f) Paleontological Society of Washington held at the National Museum of Natural History. Washington, District of Columbia, USA. October 16, 2002. g) Department of Chemistry, Mathematics, and Physical Sciences, Saint Francis University. Loretto, Pennsylvania, USA. October 21, 2002. h) Geotrans, Inc. (Sterling, Virginia, USA). October 22, 2002. i) School of Science and Health, Philadelphia University, Philadelphia, Pennsylvania, USA. October 24, 2002. j) Bennington College (Vermont, USA) March 28, 2003. k) McLean High School (Virginia, USA) March 31, 2003. l) Columbia Heights Community Science Workshop (CHCSW). Washington, District of Columbia, USA. December 2, 2003. m) Muskingum College (New Concord, Ohio, USA). Homer A. Anderson Lecturer, Keynote Speech. April 22, 2004. n) Department of Biology, University of Houston Downtown (Texas, USA). April 26, 2004. o) College of Natural Sciences, Hawai'i Pacific University (Windward Hawai'i Loa Campus, Kaneohe, Oahu, Hawai'i, USA) October 11, 2004. p) Crop Protection Department, University of Puerto Rico, Mayagüez, Puerto Rico ("Exudados de plantas o las cosas pegajosas que algunas plantas producen: historia, usos, y química: Hacia una clasificación general") January 28, 2005. q) Universidad Metropolitana, San Juan January 31, 2005 ("Exudados de plantas o las cosas pegajosas que algunas plantas producen: historia, usos, y química: Hacia una clasificación general"). r) Department of Biology, Chemistry, and Environmental Sciences, Christopher Newton University (Newport News, Virginia, USA) February 24, 2005. s) March 4, 2005, Department of Biology, Coppin State University (Baltimore, Maryland, USA). t) March 4, 2005 Department of Biology, College of Notre Dame of Maryland (Baltimore, Maryland, USA). v) May 2, 2005 Department of Natural Sciences, Fayetteville State University (Fayetteville, North Carolina, USA); w) September 8, 2005 Gallaudet University (Washington, District of Columbia, USA), Department of Interpreting, x) September 20, 2005 Faculty Scholars Forum, Washburn Arts Center, Gallaudet University (Washington, District of Columbia, USA), y) February 16, 2006 Mid-

- Potomac Chapter of the Archaeology Society of Maryland (Needwood Mansion in Rockville, Maryland, USA), z) April 21, 2006 Gem, Lapidary, and Mineral Society of Washington, District of Columbia, Inc. (Washington, District of Columbia, USA, summarized in The Dopstick (Newsletter of the Gem, Lapidary, and Mineral Society of Washington, District of Columbia, Arlington, Virginia) 55(4)1], aa) April 26, 2006 Smithsonian National Zoological Park, Conservation and Research Center (Front Royal, Virginia, USA), bb) June 7, 2006 Mineralogical Society of Washington, District of Columbia (held at the National Museum of Natural History. Washington, District of Columbia, USA), cc) Nature's tiny time pills: ancient amber beads and the life caught, Department of Paleobiology, National Museum of Natural History, Washington, District of Columbia, USA. October 12, 2006, dd) December 20, 2006 Paleontological Society of Washington, District of Columbia (held at the National Museum of Natural History. Washington, District of Columbia, USA), ee) January 12, 2007 Chesapeake Gem & Mineral Society (Baltimore, Maryland) Summarized in the Chipper's Chatter [Newsletter of the Chesapeake Gem & Mineral Society (Baltimore, Maryland), p. 1], ff) May 20, 2007 Maryland Geological Society (Bowie); gg) August 18, 2007 National Museum of Natural History (Washington, District of Columbia); ii) September 11, 2007 Department of Chemistry and Physics, Hood College, Frederick, Maryland, USA; jj) Department of Interpretation, Gallaudet University, Washington, District of Columbia; kk) September 24, 2007 Northern Virginia Mineral Club [Arlington, Virginia; summarized in The Mineral Newsletter (The Northern Virginia Mineral Club, Inc.) 48(7):1]; ll) October 5, 2007 United States Botanical Garden (Washington, District of Columbia); mm) November 7, 2007, Central Pennsylvania Rock and Mineral Club (Mechanicsville, Pennsylvania); nn) Maryland Day, University of Maryland (College Park), April 28, 2012; oo) May 10, 2012, Paleobiology Training Program, Department of Paleobiology (National Museum of Natural History, Washington, District of Columbia; pp) May 22, 2012, Osher Lifelong Learning Institute (OLLI), Pennsylvania State University, York, Pennsylvania, USA; qq) April 23, 2013 Paleobiology Training Program, Department of Paleobiology (National Museum of Natural History, Washington, District of Columbia; rr) February 18, 2014 Lee R. Glatfelter Library at Penn State University in York, PA; ss) March 25, 2014, Osher Lifelong Learning Institute (OLLI), Pennsylvania State University, York, Pennsylvania, USA.
37. "Una visión para el Departamento de Biología de la Universidad de Puerto Rico (Recinto de Río Piedras)". A vision for the Biology Department of the University of Puerto Rico (Río Piedras Campus). August 22, 2003. Biology Department of the University of Puerto Rico (Río Piedras Campus).
 38. Introduction to environmental sciences. February 2, 2004. DeVry University. Fort Washington, Pennsylvania, USA.
 39. The hydrologic cycle: basics and applications. April 5, 2004. Biology Department. Lewis University. Romeoville, Illinois, USA
 40. Be genuine and strive for excellence: two keys to success. April 16, 2004. Department of Mathematics and Sciences. Brenau University, Gainesville, Georgia, USA
 41. "Un plan académico y administrativo para la Facultad de Ciencias Naturales de la Universidad de Puerto Rico, Recinto de Río Piedras : Retos y oportunidades para comienzos del siglo XXI . An academic and administrative plan for the Faculty of Natural Sciences of the University of Puerto Rico, Río Piedras Campus. Challenges and opportunities of the XXI century. February 1, 2005. Faculty of Natural Sciences. University of Puerto Rico (Río Piedras Campus).
 42. Student Response Systems or "clickers" (Turning Point 2006). One of four featured presenters in Teaching at Gallaudet by Cindy King, Earl Parks, Sumi Funayama, and **Jorge Santiago-Blay**. April 6, 2006. Gallaudet University, Washington, District of Columbia Board of Associates. <http://academictech.gallaudet.edu/events/2006/boa/Also>, as part of the intensive E-learning training

- for faculty members Gallaudet University May 16-18, 2006 (with Deirdre McGlynn and Shannon Agostini).
43. Introduction to Forensic Entomology - December 5, 2007 Gallaudet University (Washington, District of Columbia), Department of Chemistry and Physics. April 7, 2010 in the Forensic Chemistry course (Chemistry). Gallaudet University, Washington, District of Columbia.
 44. More insights on arthropod evolution and ecology. a) January 31, 2008. Department of Biology, University of Puerto Rico. Río Piedras. b) April 18, 2008 Maryland Entomological Society (University of Maryland, Baltimore, Maryland). c) September 11, 2009. Gem & Mineral Society in Catonsville, Maryland. Summarized in the Chipper's Chatter [Newsletter of the Chesapeake Gem & Mineral Society (Baltimore, Maryland)]
 45. Recent directions in plant exudate and amber research. February 29, 2008. Geobiology Symposium XVI. Paleontology – Paleobiology – Geobiology. University of Pennsylvania, Department of Earth & Environmental Science, Philadelphia, Pennsylvania. b) March 7, 2008. The Huntington Botanical Gardens, San Marino, California, c) April. 15, 2008. Izaak Walton League, York, PA; d) May 16, 2008, Marie Selby Botanical Garden (Sarasota, Florida); e) December 5, 2008 Martin Memorial Library (York, PA) <http://www.youtube.com/watch?v=7dkXP155gBg>; f) March 18, 2009. Biology Department, University of Puerto Rico, Mayagüez, PR; g) March 17, 2009. Biology Department, University of Puerto Rico, Mayagüez, PR; h) March 19, 2009. Biology Department, University of Puerto Rico, Río Piedras, PR; i) August 11, 2009. Natural History Society of Maryland (Baltimore, Maryland, USA); j) September 11, 2009. Gem & Mineral Society in Catonsville, Maryland. Summarized in the Chipper's Chatter [Newsletter of the Chesapeake Gem & Mineral Society (Baltimore, Maryland), p. 1], m) October 6, 2009, Graduate Research Institute (GRI) Research Seminar, Gallaudet University, l) December 15, 2009, Boyce Thompson Arboretum (Superior, Arizona, USA); m) June 2, 2010, National Museum of Natural History, Paleobiology Training Program (PTP), n) June 13, 2010, New Jersey State Museum; o) September 8, 2010 Laboratory of Tree-Ring Research, The University of Arizona, Tucson; p) October 1, 2010, Crop Protection Department, Agricultural Experiment Station (Río Piedras) University of Puerto Rico, Mayagüez Campus; q) October 13, 2010, National Fossil Day, National Mall (Washington, District of Columbia); r) Richard Clark Lecture Series, October 20, 2010. Department of Biology, York College, York, Pennsylvania; s) April 21, 2011, National Museum of Natural History, Department of Paleobiology, Field Notes Seminar Series; t) May 24, 2011, Department of Geology, Auburn University; u) March 6, 2012 University of Puerto Rico (Utuado, Puerto Rico); v) November 19, 2012 Tropical Agriculture Research Station (Mayagüez, Puerto Rico); w) November 21, 2012 Centro Ceremonial Indígena de Caguana, Instituto de Cultura de Puerto Rico, Utuado, Puerto Rico; x) November 24, 2012 Frente Ambiental Amigos de la Naturaleza de Patillas, PR Inc., y) February 25, 2013, Department of Biology, American University (Washington, DC), z) March 4, 2013, Department of Biology, University of Puerto Rico, Humacao, Puerto Rico; aa) March 5, 2013 Tropical Agricultural Research Station, Mayagüez, Puerto Rico; bb) March 6, 2013, Manuel Méndez Liciaga Vocational High School [San Sebastián, Puerto Rico, featured in Tu Tiempo, Publicación Escolar Escuela Superior Vocacional Manuel Méndez Liciaga 1(2):9]; cc) March 7, 2013, Department of Biology, University of Puerto Rico, Bayamón, Puerto Rico; dd)
 46. Uses of Blackboard. *In*, eShowcase 2008. Produced by Sheri Youens-Un. Gallaudet University. Washington, District of Columbia, USA. Time: 15'13" to 17'40".
 47. *Anadenobolus* arboreal millipedes from Puerto Rico, "Gongolies arbóreas *Anadenobolus* de Puerto Rico". a) May 11, 2009 Manuel Méndez Liciaga High School (San Sebastián, Puerto Rico); b) May 11, 2009 Manuel Méndez Liciaga Vocational High School (Ponce, Puerto Rico); c) May 11, 2009 Biology Department, Pontificia Universidad Católica de Puerto Rico (Ponce, Puerto Rico); d) May 12, 2009 Biology Department, University of Puerto Rico (Bayamón, Puerto Rico); e) May 15, 2009

- Laboratorio de Multiuso de Ciencia Integrada ISMUL), University of Puerto Rico (Arecibo, Puerto Rico); f) March 11, 2013 Camp Santiago (Salinas, Puerto Rico); g) June 7, 2014 La Casa Verde (Maunabo, Puerto Rico).
48. What has worked in the teaching and learning of Biology at Gallaudet University. Progress report and future plans. **Santiago-Blay, J. A.** (presenter), Ava P. Morrow, A. L. Powell, E. Craft, A. E. Ogunjirin, and D. E. Hines. Educating diverse students. Council of American Instructors of the Deaf (CAID). 2009 National Conference. Gallaudet University. Washington, District of Columbia, USA. June 22-26, 2009.
 49. Internships: assessing student's knowledge and skills in the work environment. Morrow, A. P. (presenter) and J. A. Santiago-Blay. Educating diverse students. Council of American Instructors of the Deaf (CAID). 2009 National Conference. Gallaudet University. Washington, District of Columbia, USA. June 22-26, 2009.
 50. Kidney and Excretion. Kutztown University of Pennsylvania. May 5, 2010.
 51. The Hardy-Weinberg Principle. Department of Biology. American University. Washington, District of Columbia. August 11, 2010.
 52. The downfall of James Mark Baldwin (1861-1934): Evolution, academia, culture, and political "progressivism" in Baltimore, MD, USA. a) April 28, 2011, National Museum of Natural History, Department of Paleobiology, Ad Hoc Seminar Series. b) April 4, 2012. Penn State University, York Faculty Colloquium (sponsored by the Faculty Affairs Committee), c) April 4, 2014, Osher Lifelong Learning Institute (OLLI), Pennsylvania State University, York, Pennsylvania, USA.
 53. Insect, plants, and insect-plant interactions. October 25, 2011. Agricultural Club. Pennsylvania State University, York PA.
 54. My experiences as a new business owner. Presenter in Talk About, A free educational networking event for entrepreneurs "where you meet, grow, and learn..." a) April 20, 2012. Institute of Entrepreneurial Studies. Harrisburg Area Community College (York, Pennsylvania, USA); b) Departamento de Biología, Universidad de Puerto Rico, Bayamón, Puerto Rico (March , 2013).
 55. Clickers in the Classroom: Faculty Panel. With S. Shaffer, B. Eshbach, H. Deren, and **J. A. Santiago-Blay**. April 26, 2012. Penn State University, York Faculty Colloquium (sponsored by the Faculty Affairs Committee).
 56. Insect and other arthropod pests of Puerto Rican forests: an ongoing project. a) March 7, 2012 University of Puerto Rico (Humacao, Puerto Rico); b) March 9, 2012 University of Puerto Rico (Mayagüez, Puerto Rico); c) March 10, 2012 Comité ProDesarrollo Maunabo and Department of Natural Resources (La Casa Verde, Barrio Emajaguas, Punta Tuna, Maunabo, Puerto Rico); d) March 12, 2012 Department of Natural Resources (San Juan, Puerto Rico); e) June 4, 2012 Comité ProDesarrollo Maunabo and Department of Natural Resources (La Casa Verde, Barrio Emajaguas, Punta Tuna, Maunabo, Puerto Rico); f) August 11, 2012 Department of Natural Resources (Patillas, Puerto Rico); g) August 13, 2012 Department of Natural Resources (Aguirre, Puerto Rico); h) August 15, 2012 International Institute of Tropical Dasonomy (San Juan, Puerto Rico); i) August 16, 2012 Fideicomiso de Conservación de Puerto Rico (Guánica, Puerto Rico); l) November 20, 2012 United States Fish and Wildlife Service, Cabo Rojo, Puerto Rico; m) March 6, 2013 University of Puerto Rico, Utuado, Puerto Rico; n)
 57. Engaging non-science majors in science courses: Why? How? Is it working? Environmental Sciences (BiSci003). October 24, 2012. Faculty Showcase: Course Design Elements that Make a Difference.
 58. Engaging non-science majors in science courses: Why? How? Is it working? Course Design Elements that Work Environmental Sciences (BiSci003). Series "What are you Working on?" October 24, 2012. Penn State University, York Faculty Colloquium
 59. Topics in Puerto Rican natural history: My travels in Puerto Rico looking for giant and beautiful gongolies, amber and plant exudates, and forest insect pests: The intersection of research and

- education. Series “What are you Working on?” January 30, 2013. Penn State University, York Faculty Colloquium.
60. Engaging non-science majors in biology courses: what is working and what is not: a review after nearly 2 years. Series “What are you Working on?” January 31, 2013. Penn State University, York Faculty Colloquium.
 61. *Ámbar en Puerto Rico* (Amber in Puerto Rico). August 17, 2013. Comité ProDesarrollo Maunabo and Department of Natural Resources (La Casa Verde, Barrio Emajaguas, Punta Tuna, Maunabo, Puerto Rico).
 62. *La vida de un científico* (The life of a scientist). October 21, 2013. Videoconference with the Colegio marista (Guaynabo, Puerto Rico). With the technical assistance of Mr. Francisco Bratsis (NMNH).
 63. The importance of careful observations for the scientific method. November 18, 2013. Pennsylvania Virtual Charter School. Souderton, Pennsylvania, USA.
 64. Shaffer, S. C., Eshbach, B., and **J. A. Santiago-Blay**. 2014. Using adaptive learning technology and reflective exercises to improve first-year success in a paired developmental college reading/environmental science course. Penn State Symposium for Teaching and Learning with Technology. A) February 28, 2014 Penn State University, York, PA. b) March 22, 2014. Penn State University, University Park, Pennsylvania, USA. http://www.youtube.com/watch?v=oMTHH_sqH4k

Scientific Photography and Scientific Art Work

Scanning electron micrographs taken by me for other researchers, or data based on those micrographs, have been published in Annals of the Entomological Society of America 1996, 89:109-121; Cell (Simon et al.); Journal of Chemical Ecology (Merrill and Wood); Oecologia 1992, 89(2) (Barnehenn); Ohio State Engineer (Brennan); University of California Publications in Entomology 1999. 118, pp. Also, some of those images are available at: <http://www.menzelphoto.com/gallery/big/nanotech3.htm>, and used by several colleagues at professional meetings and publications.

Santiago-Blay, J. A. 1999. No Title. Subject: Three photos of *Trichogramma* wasps parasitizing moth eggs. Iris. A journal of photography (University of Chicago). p. 18.

MAJOR RESEARCH SUPPORT

University of California President's Post-Doctoral Fellowship. Revision of the Aulacoscelinae (Coleoptera: Chrysomelidae). University of California, Berkeley. November 1990 - December 1992. J. A. Santiago-Blay (P.I.) (Funding approximately \$78,000.) (Also recommended for a Chancellor's Fellowship from the University of California at Berkeley but only one of the two fellowships could be accepted.)

United States Department of Agriculture, Forest Service, Pacific Southwest Research Station. Berkeley, California (Chief's Multicultural Award). Molecular systematics of *Conophthorus ponderosae* from Western Pines. N. Rappaport (P.I.), C. Orrego (San Francisco State University, California, USA), and D. L. Wood (University of California, Berkeley), and J. A. Santiago-Blay. September 1994 to October 1995. (Funding approximately \$36,500.)

National Institutes of Health. MBRS. DNA and SEM tags for wild populations of sandfly vectors of human leishmaniasis. C. Orrego (P.I., San Francisco State University, California, USA). Collaborative Investigators: J. A. Santiago-Blay, J. Arévalo, and E. Pérez (University of Peruana C. Heredia, Lima, Perú). August 1995 to July 1998. (Funding approximately \$220,000 total for three years.)

National Institutes of Health. Resident Supplement Program (Investigator). Molecular evolutionary genetics of racial differentiation. (University of Chicago, Illinois). January 1996 to September 1997. (Funding approximately \$120,000.)

Smithsonian Institution. Scholarly Studies Program. The insect fauna, biological context, and biogeography of three Middle Jurassic to Lower Cretaceous *Plattenkalk* deposits from North America. C. C. Labandeira (P.I.) and J. A. Santiago-Blay (Co-PI). Department of Paleobiology, National Museum of Natural History, Washington, District of Columbia, USA. May 2001. (Funding approximately \$65,000.)

OTHER RESEARCH SUPPORT, AWARDS, HONORS, SCHOLARSHIPS, AND NOMINATIONS

Minority Graduate Student Traineeship. National Science Foundation. (S.P.I.7808042). University of Puerto Rico, Río Piedras. September 1978 to September 1980. (Funding, approximately \$20,000.)

Beca Presidencial. Universidad de Puerto Rico, Río Piedras. July 1984. (*Declined*)

Smithsonian Minority Student Internship. United States National Museum, Natural History, Washington, District of Columbia, USA. August 6-17, 1984. To study Caribbean scorpion collections at the USNM. (Funding approximately \$800.)

Graduate Opportunity Fellowship. University of California, Berkeley. January to May '1985 and September 1987 to May 1988 and. (Funding approximately \$30,000.)

Graduate Minority Fellowship. University of California, Berkeley. September 1985 to May 1986. (Funding approximately \$15,000.)

Grant-In-Aid of Research. Copernicus Fund of the Sigma-Xi, The Scientific Society. New Haven, CT. December 1985. Field research of Hispaniolan scorpions. (Funding approximately \$800.)

Exline-Frizell Fund for Arachnological Research Award. California Academy of Sciences, San Francisco. September 1986. Field research of Hispaniolan scorpions. (Funding approximately \$800.)

Graduate Student Field Research Grant. Center for Latin American Studies. University of California, Berkeley. May 1987. Field research of Hispaniolan scorpions. (Funding approximately \$1,500.)

Collection Study Grant. American Museum of Natural History, New York, USA. August 17-21, 1987. To study Caribbean scorpion collections at the AMNH. (Funding approximately \$800.)

Robert L. Usinger & Christine Usinger-Manuto Memorial Award. University of California, Department of Entomological Sciences, Berkeley. March 1988. (Funding approximately \$300.)

Florida Entomological Society Scholarship. Tallahassee, Florida, USA. June 1988. Research on host plant feeding preferences of *Monoxia* chrysomelid beetles. (Funding approximately \$800.)

National Hispanic Scholarship Fund. Novato, California, USA. April 1989. (Funding approximately \$800.)

Ford Foundation Dissertation Fellowship for Minorities Program. Washington, District of Columbia, USA. April 1989 and April 1990. Honorable Mention each year.

University of California, Berkeley. Office of Educational Development. An illustrated manual of functional insect anatomy. April 1990. (In collaboration with Professor R. L. Pipa) (Funding approximately \$600.)

Margaret C. Walker Fund. University of California, Department of Entomological Sciences, Berkeley. June 3-10, 23-29; 1990. Examine type specimens of beetles and scorpions at the USNM and at Harvard University. (Funding approximately \$300.)

DuPont Science Grant. University of California, Department of Entomological Sciences, Berkeley. June 3-10, 23-29, 1990. Examine type specimens of beetles and scorpions at the USNM and at Harvard University. (Funding approximately \$300.)

- Ernst Mayr Travel Grant in Animal Systematics. Harvard University.** United States National Museum, Natural History, Washington, District of Columbia and Harvard University, Cambridge, Massachusetts, USA. June 3-10, 23-29; 1990. Examine type specimens of beetles and scorpions at the USNM and at Harvard University. (Funding approximately \$800.)
- Southwestern Research Station Student Fund. American Museum of Natural History.** New York, New York, USA. June 1992. Field research on chrysomelid beetles in southeastern Arizona. (Funding approximately \$300.)
- American Philosophical Society.** Michaux Grant in Forest Botany. Scanning electron microscopy and molecular genetics of "*Conophthorus ponderosae*" beetles in silviculturally-important Western North American pines: In search of markers from reproductively isolated populations. With C. Orrego (San Francisco State University, California, USA). April 1995. (Funding \$4,000.)
- Vista College.** Berkeley, California, USA. Numerous grants from Staff Development Funds to participate in professional workshops related to the improvement of biology teaching laboratories. January 1991 to January 1995. (Funding approximately \$2,000.)
- Vista College.** Berkeley, California, USA. Twice nominated (1992, 1994) by Dean of Instruction of Vista College for a National Teaching Two-Year College Award from NABT.
- Harry S. Truman College.** Chicago, Illinois, USA. Grants from Staff Development Funds to participate in professional workshops related to the improvement of biotechnology program December 1996. (Funding \$1,000, *declined*.)
- University of Chicago.** Center for Latin American Studies. McArthur Cuban Scholarly Exchange. A survey of the Cuban *Drosophila* flies (Insecta: Diptera): Planting the seeds for a long-term collaborative investigation, with biogeographic and evolutionary implications. January 1997. (Funding \$3,000.)
- Southeastern Museums Conference.** Baton Rouge, Louisiana, USA. Minority Professional Scholarship Award. Scholarship to attend Annual Meeting (October 22-25) in Raleigh, NC and full annual registration. September 1997. (Funding \$500.)
- National Museum of Natural History (Smithsonian Institution).** Department of Paleobiology. Mazon Creek Bristletails (Archeognatha): A window into ancestral Paleozoic insects. Short-term visitor grant. October 1998. (Funding \$1,450.)
- National Museum of Natural History (Smithsonian Institution). Center for Latino Initiatives.** Develop a model program to combine research and outreach with emphasis in minorities of the Washington, District of Columbia Area. The insect fauna, biologic context, and biogeography of three Middle Jurassic to Lower Cretaceous *Plattenkalk* deposits from North America. Year 1: Data Collection, Initial Analyses, and Outreach. (with C. C. Labandeira, Project Director and CoP.I.) December 1999 and January 2000. (Total Funding \$15,000.)
- National Museum of Natural History (Smithsonian Institution). Biodiversity Surveys and Inventories Program.** The biota of a Middle Eocene (45-50 Ma) amber forest Arkansas, USA: an integrated biological survey, with emphasis on arthropods. (With Conrad C. Labandeira, Co-P.I.) April 2000. (Total Funding \$4988.) Declined as collecting permit was denied in spite of repeated efforts, including from SI Counsel Office, to convince owners of the importance of this research.
- National Geographic Society (Washington, District of Columbia).** June 2001 - June 2003. The insect fauna, biological context, and biogeography of a Middle Jurassic lithographic limestone deposit in New Mexico (USA). (With Conrad C. Labandeira, Co-P.I.) January 2001. (Funding \$7,280.)
- Roanoke College. Starter Grants.** 1) Supporting long-term projects involving undergraduates doing research in evolutionary biology. November 2000. (Funding \$1877.50). 2) The biota, biological context, and biogeography of a Middle Jurassic (*circa* 164 Ma) lithographic limestone deposit in New Mexico: collecting, processing, and preliminary identification of samples (March 2001). **Summer Scholars Program.** The flora and community ecology of two Jurassic lithographic limestone

formations in North America (for Goo-Syl Han) March 30, 2001 (Funding \$2500.). **Faculty Professional Advancement Grants. Department of Biology and Dean's Office.** 1) Travel funds to attend: Research Link 2001 Institute" (Saint Leo University, Florida, USA) 22-24 February 2001. 2) 11th Annual North American Dendroecological Fieldweek. Universidad Autónoma Agraria "Antonio Narro". Saltillo, Coahuila, México. August 12-19, 2001. May 2001 (Total Funding \$1,800.). **Fintel Library** to support research and teaching activities. June 2001. (Funding \$2,000.). **Student Life Committee.** Requests in support of 1) Brian C. Wilson (\$100, not used) and 2) Goo-Syl Han (\$100, total funding \$200, October 2001).

Cabell Brand Center (Salem, Virginia). 2001. Proposal to support undergraduate research in the Roanoke Valley area. Undergraduates benefited: Brian C. Wilson and Christine E. Taylor. (Funding \$500.00.)

Virginia Foundation for Independent Colleges (Mednick Memorial Fellowship). Chemical analyses of fossil resins using solid state nuclear magnetic resonance spectroscopy. Richmond, Virginia. March 2001. (Funding approved \$1,600.00).

Virginia Foundation for Independent Colleges (Jessie Ball DuPont Minority Student Summer Research Program). March 2001. (Funding approved: \$2,500.00 for Leslie Jones, "Characterization of bubbles in the hermaphroditic gametophytes of *Ceratopteris richardii*", \$2,500.00 for Laura Ngo, "The "forbidden path" hypothesis or why are wing reduction (= brachyptery) or wing absence (= aptery) more common on female insects than on male insects ". Total Funding \$5,000).

National Museum of Natural History (Smithsonian Institution). Biodiversity Surveys and Inventories Program. Summer 2003. A middle Jurassic insect fauna from North America. (with Conrad C. Labandeira, P.I. and Carol Hotton, Co-P.I.). (Total Funding \$4000.00.)

National Museum of Natural History (Smithsonian Institution). Minority Internship Program. September 2003. (Funding approved: \$3,500.00 for Lester Guthrie, "Morphometric variability of the terminalia (last abdominal segments and genitalia) in *Monoxia* (Coleoptera: Chrysomelidae) (With Conrad C. Labandeira, as Co-Supervisor).

University of Maryland (University College, Adelphi, Maryland, U.S.A). Nominated for the Stanley J. Drazek Teaching Excellence Award. January 2004 and January 2005.

National Museum of Natural History (Smithsonian Institution). Small Grants Proposal. Identifying and imaging, and databasing the Brodzinsky López-Peña (BLP) Dominican amber collection located at the Department of Paleobiology (NMNH). Conrad C. Labandeira, P.I. March 2004. **Jorge A. Santiago-Blay**, Contractor. (Funding approved \$5,000.)

Northwestern University Alumnae (Evanston, Illinois). Botany and Chemistry: a Connection through Plant Exudates. Joseph B. Lambert and J. A. Santiago-Blay, co-P.I. April 2005. (Funding approved \$2,000.)

American University (Washington, District of Columbia). Center for Teaching and Learning. Small Grants Awards. May 2005 (Funding approved, \$100); August 2005 (Funding approved \$100); June 2008 (Funding approved \$100); July 2009 (Funding Approved, \$100).

American University (Washington, District of Columbia). Center for Teaching, Research, and Learning. Research Small Grants Awards. July 2010 (Funding approved, \$200).

American University (Washington, District of Columbia). General Education Program. GEFAP. Support for one Undergraduate Assistant (General Biology 1, Biology 110) for fall 2005. (Funding Approved \$600.)

Gallaudet University. Small Research Grants. Chemical analyses of fossil resins (amber) and modern plant exudates using C-13 (carbon-13 isotope) solid state nuclear magnetic resonance spectroscopy and H-1 (proton) NMR. J. A. Santiago-Blay. P.I. September 2005. (Funding approved \$5,000.)

- National Museum of Natural History (Smithsonian Institution). Small Grants Proposal.** Archival Digitization and Upgrading of the Dominican Amber Collection. Conrad C. Labandeira, P.I. and Finnegan Marsh. March 2006. **Jorge A. Santiago-Blay**, Contractor. (Funding approved \$5,000.)
- Gallaudet University.** Office of E-learning. E-curriculum 2006 Proposal. April 4, 2006. (Funding approved \$850.) December 1, 2006 (Funding approved \$500.)
- Gallaudet University.** Committee F. Proposal to attend the conference "Uncovering the Heart of Higher Education: Integrative Learning for Compassionate Action in an Interconnected World" (February 22-25, San Francisco, California). December 1, 2006. (Funding approved \$1280, could not attend.)
- Gallaudet University. Small Research Grants.** New scholarship on analysis of modern plant exudates and fossil resins with nuclear magnetic resonance spectroscopy: plants from the southern hemisphere, new plant families, new types of exudates, and rare ambers. J. A. Santiago-Blay. P.I. October 2007. (Funding approved \$5,000.)
- Gallaudet University. Small Research Grants.** Analyses of anthropological objects containing plant exudates, additional modern plant exudates, and ancient materials (copal and amber) with carbon (C-13) and proton (H-1) nuclear magnetic resonance spectroscopy (NMR). J. A. Santiago-Blay. P.I. October 2009. (Funding approved \$5,000.)
- National Museum of Natural History (Smithsonian Institution). Collection care and Preservation Fund (CCPF).** Preservation, processing, and archiving of Middle Eocene Arkansas amber. (Conrad C. Labandeira. P.I. October 201. (Funding approved \$13,460.00)
- United States Department of Agriculture (USDA). Forest Service. International Institute of Tropical Forestry.** Cooperative Agreement (11-CA-11120107-023) of the Field Guide of Forest Pest and Other Related Arthropods in PR and Virgin Islands. Co-PI with Dr. Rosa Franqui. September 2011 up to December 2012. (Funding approved \$65,091.)
- The Pennsylvania State University, York. Professional Development Grant.** Carbon-13 Solid State Nuclear Magnetic Resonance Spectroscopy (C-13 SS-NMR) of worldwide ambers and modern plant exudates. October 2011. (Funding approved, \$500.)
- The Pennsylvania State University, York. Penn State York Campus Advisory Board Activity Grant Proposal.** Nuclear Magnetic Resonance (NMR) Spectroscopy Analyses of Exudates from the Magnoliids, Monocotyledons, Asterids, and Other Dicotyledonous Plants Never Before Investigated. May 2012. (Funding approved, \$1,500.)
- The Pennsylvania State University, York. Penn State York Campus Advisory Board Activity Grant Proposal.** Possible trans-Caribbean engagements in pre-Columbian times through the analysis of amber. May 2013. (Funding approved, \$1,500.)
- University of Maryland (University College, Adelphi, Maryland, U.S.A).** Nominated. 2013 UMUC Stanley J. Drazek Teaching Excellence Award and the UMUC Teaching Recognition Awards. UMUC Faculty Award and Recognition Program. September 2012.
- Penn State University (York, Pennsylvania, USA).** Finalist. James H. Burness Award for Excellence in Teaching. Spring 2013.
- The Pennsylvania State University, Schreyer Institute for Teaching Excellence; Teaching & Learning with Technology; and Penn State Libraries.** Using Adaptive Technology and Reflective Exercises on a Mobile Device to Improve First-Year Success in a Paired Developmental College Reading Course. Suzanne C. Shaffer and Jorge A. Santiago-Blay (co-Project Leader) (Funding received, \$3,500; \$1,700; \$2,300, respectively; total, \$7,500).
- Penn State University (York, Pennsylvania, USA).** Winner. James H. Burness Award for Excellence in Teaching. Spring 2014. (\$600.00)
- The Pennsylvania State University, York. Professional Development Grant.** Going beyond "The Cycle": Improving the BSci General Education Courses at Penn State York, Beginning with Environmental Sciences. May 2014. (Funding approved, \$1504.)

SENCER, Science Education for New Civic Engagements and Responsibilities (Washington, District of Columbia, USA). Longitudinal study of effectiveness of using the SENCER model with undergraduate Environmental Science Students. (Funding approved, 3,000.)

SIGNIFICANT DONATIONS GARNERED

National Museum of Natural History (Smithsonian Institution). Washington, District of Columbia, USA. Department of Entomology. Twelve used museum cabinets, drawers, glassware for collections development at Roanoke College (Salem, Virginia). May 2000. Estimated market value at time of donation \$15,000.

National Institutes of Health. Surplus Facility. Gaithersburg, Maryland, USA. One Zeiss phase contrast-fluorescence microscope, five used computers with keyboards and 19" monitors, three printers, and one overhead projector, one carousel projector, five thermocyclers, four vacuum pump, four incubators for my laboratory at Roanoke College (Salem, Virginia). June 2000. Estimated market value at time of donation \$110,000.

Earth Sciences Research Institute (ESRI) (Redlands, California, USA). ArcView, a geographic information systems computer program for use in Roanoke College, including my laboratory. July 2000. Estimated market value at time of donation \$2,000.

M/A-COM, Tech. Inc. (Roanoke, Virginia). Two bellows and two "O"-rings for Amray 1000 scanning electron microscope at Roanoke College. April 2001. Estimated market value at time of donation \$2,000.

OTHER PROFESSIONAL ACTIVITIES AND SERVICE

Presenter. Earth's History Academy July 2011-2014. A week-long workshop for US school teachers. Presented on topics such as ecology, evolution, extinction, history of life, biodiversity, and reef ecology: past and present.

Volunteer. York (Pennsylvania, USA) Habitat for Humanity. October 2012.

Instructor. GED in English. York City School District (YCSD). York, Pennsylvania. From summer 2011.

Instructor. GED en Español (EDUC CE005). Harrisburg Area Community College (HACC). York, Pennsylvania. From summer 2010 to summer 2011.

Member. Panel Ecology and Environmental Sciences. Ford Foundation. National Academy of Sciences. Irvine, California. March 2009.

Member. Science Studies Focus Group. "Tools for the Researchers" at the Smithsonian Institution. Washington, District of Columbia, USA. January 2003 to the present.

Member. Publications Committee. American Entomological Society. November 2003 to October 2009.

Member. Prior Learning Program. University of Maryland, U.S.A (University College). June 2003 to Spring 2009.

Member. Gallaudet University Foundations of Excellence, Roles and Purposes Committee. December 2006 to March 2007.

Reviewer of articles for several scientific journals and books, mainly in entomology and in botany. 1985 to present. Publications include: *Acta Geologica*, *African Invertebrates*, *Biologia (Bratislava, Slovakia)*, *Caribbean Journal of Science*, *Euscorpius*, *Proceedings of the Royal Society: Biological Sciences*, *Geobios*, *Psyche*, *United States Geological Survey*. *Teaching and Learning at Penn State York*.

Reviewer of grant proposals. 2004 to the present. CRDF (Arlington, Virginia); Gallaudet University (Small Grants Program); National Academy of Sciences (Ford Foundation); Paleontological Society International Research Program (Sepkoski Grants); United States Civilian Research and Development Foundation;

- External Personnel Evaluator. Evaluate senior personnel for one of the units of the Smithsonian Institution located out of the continental USA. 2004 to the present.
- Presenter. Bug Fest (September 17, 2005), Fossil Fest (February 10, 2007) and other official activities, as needed. Smithsonian Institution, Washington, District of Columbia, USA.
- Interviewee. Television, Radio or press. a) About Roy Woodbury (2003). b) Anonymous. 2010. What are your New Year's resolutions for 2010 – for yourself and for Gallaudet? Interview for On the Green. c) WALO (1240AM, Humacao, Puerto Rico) interview with Susan Soltero about my talk at the Agricultural Experiment Station (August 9, 2011); d) WALO (1240AM, Humacao, Puerto Rico) interview with Susan Soltero about my talk at the Agricultural Experiment Station (February 27, 2012); e) WPAB (550AM, Ponce, Puerto Rico), interview with María Luisa Luccheti (*La gente está hablando*) about arboreal millipedes of Puerto Rico (May 9, 2012); f) WTPM (92.9FM, Radio Paraíso, Mayagüez, Puerto Rico) interview with Dr. Julia Mignucci about my recent visit to Puerto Rico (May 29, 2012); g) WALO (1240AM, Humacao, Puerto Rico) interview with Susan Soltero about my recent visit to Puerto Rico (May 30, 2012); h) WPAB (550AM, Ponce, Puerto Rico), interview with Alberto Vélez (Puerto Rico Produce) about my current trip in Puerto Rico (May 31, 2012); i) WUPR (1320AM, Utuado, Puerto Rico), interview with Pedro Matos Ripoli, *Orientando al Agricultor*; j) WPAB (550AM, Ponce, Puerto Rico), interview with María Luisa Luccheti (*La gente está hablando*) about amber in Puerto Rico (November 23, 2012); k) WXEW (Radio Victoria 840AM, Maunabo, Puerto Rico). Insects Bosque de Cayur (June 4, 2012). l) WALO (1240AM, Humacao, Puerto Rico) interview with Susan Soltero about my trip to Puerto Rico (December 7, 2012); m) Univisión TV (Guaynabo, Puerto Rico), interview with Ada Monzón about the giant arboreal millipedes of Puerto Rico (March 4, 2013); n) Univisión TV (Guaynabo, Puerto Rico), interview with Susan Soltero about amber in Puerto Rico (March 7, 2013); o) WTPM (92.9FM, Radio Paraíso, Mayagüez, Puerto Rico) interview with Annie Díaz about my recent visit to Puerto Rico (August 13, 2013); p) WPAB (550AM, Ponce, Puerto Rico), interview with María Luisa Luccheti (*La gente está hablando*) about amber in Puerto Rico, *Anadenobolus* millipedes, and new scientific journal (August 15, 2013); q) WXEW (Radio Victoria 840AM, Maunabo, Puerto Rico). About amber in Puerto Rico; r) WXEW (Radio Victoria 840AM, Maunabo, Puerto Rico). *Earth Day and The Life of a Scientist* (April 12, 2014); s) WPAB (550AM, Ponce, Puerto Rico), interview with María Luisa Luccheti (*La gente está hablando*) about *Anadenobolus* millipedes and amber in Puerto Rico (June 6, 2014); t) Univisión TV (Guaynabo, Puerto Rico), interview with Susan Soltero about *Anadenobolus* millipedes in Puerto Rico (June 13, 2014).
- Translator. Articles and other documents of general scientific interest to Spanish. 1987 to the present. Assist in interviewing potentially incoming undergraduates in Roanoke College (Salem, Virginia) for scholarship competitions. November 2000 to December 2001.
- Student Member. Library Committee. Department of Entomological Sciences, University of California. Berkeley, California, USA. August 1988 to July 1989.
- GED Instructor. Segundo Ruiz Belvis Cultural Center. Chicago, Illinois, USA. Volunteer Teacher. Science. General Education Development (GED) High School Diploma Course (Fall 1997 and Winter 1997; first half Spring 1998); Science and Mathematics (Winter 1999). My teaching at the Segundo Ruiz Belvis Cultural Center was featured on WGBO-TV (Univisión) Channel 66 Chicago, Illinois, USA. December 4, 1997.
- Co-Organizer of Natural History Seminar Series. The University of Chicago. Department of Ecology and Evolution. September 1996 to June 1998 (with Dr. Timothy Wootton)
- Reviewed books or book chapters for McGraw-Hill. December 2000 to 2009.
- Interviewed undergraduates competing for academic scholarships at Roanoke College (Salem, Virginia). November 2000 to December 2001.

Cooperator. GRIN (Germplasm Resources Information Network, a database of all holdings in National Plant Germplasm System, www.ars-grin.gov). National Genetic Resources Advisory Council. Washington, District of Columbia, USA. July 2001 to present.

Member. Academic Integrity Council. Roanoke College (Salem, Virginia). September to December 2001.

Member. Council on Undergraduate Research. Speakers Bureau. Web Site: <http://www.cur.org/speakers.html>. December 2001 to present.

PERTINENT SKILLS

Operation of scanning electron microscope (ISI-DS 130, ETEC, AMRAY 1600, AMRAY1810, Leica Stereoscan 400, Hitachi), environmental scanning electron microscope (ElectroScan, Philips XL30), transmission electron microscope (JEOL-100CX), and ancillary computer (NEC MultiSync 3FGe, SemiCaps) and microcinematography (Javelin-Sony) equipment.

Preparation and processing of biological samples for scanning and transmission electron microscopy, including the use of sputter coater, critical point dryer, manual and automated microtomes, vacuum evaporator, and preparation of casts.

Preparation and processing of samples for numerous protocols in molecular biology, particularly recombinant nucleic acid technology, and of ancillary equipment, including operation of various kinds of thermocyclers, oligosynthesizer, photographic documentation systems, microtiter plate reader, and others.

Use of data-gathering, statistical (StatView, SPSS, SAS, SIS, EXCEL, Cricket Graphic), phylogenetic (PAUP, MacClade), nucleic acid DNA packages/ browsers (Wais, Entrez, Oligo 4.0, DNASIS, DNA*, Amplify), computers (MacOS, WindowOS, SunOS work stations with UNIX).

Operation of a differential interference, (epi)fluorescence, bright field, and phase microscope (Zeiss Axioskop).

Operation of liquid scintillator and many radioisotope management operations.

Dark room, including development of black and white negatives and printing photographs.

Image acquisition (PolaColor Insight, AutoMontage, OFoto, OMNI Professional) and creation/modification (PhotoShop, Inspiration), preparation of presentations (Power Point), as well as desktop publishing (Page Maker)

LANGUAGES

Fluent in spoken, read, and written English and Spanish. ASL (Intermediate).

ADDENDUM TO CURRICULUM VITAE

Jorge A. Santiago-Blay

Research Associate
Department of Paleobiology MRC-121
National Museum of Natural History
Smithsonian Institution
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Phone (202)633-1383; Fax (202)786-2832
E-mails: blayj@si.edu, blayjorge@gmail.com
Web Page: <http://paleobiology.si.edu/staff/individuals/santiagoblay.html>
Personal Web Page: <http://blayjorge.wordpress.com/>

Editor-in-Chief, *Life: The Excitement of Biology* (first issue to appear in the first quarter 2013)
www.blaypublishers.com

Editor-in-Chief, *Terrestrial Arthropod Reviews*

Scientific Co-Editor, Series *Research on Chrysomelidae 1-4*

Associate Editor, *Journal of Agriculture of the University of Puerto Rico*

PROFESSIONAL WORKSHOPS AND INTENSIVE TRAINING COURSES ATTENDED

- Choice Theory – Advising Session. The Pennsylvania State University. York, Pennsylvania, USA. October 9, 2014.
- Institutional Review Board (IRB) and Classroom-Based Research. The Pennsylvania State University. York, Pennsylvania, USA. September 23, 2014.
- Helping ESL students understand your writing assignments. The Pennsylvania State University. York, Pennsylvania, USA. September 18, 2014.
- Human Subjects Research Curriculum. The Pennsylvania State University. York, Pennsylvania, USA. September 6, 2014.
- Teaching as performance with Dr. Leslie Felbain University of Maryland (College Park). Penn State University. York, Pennsylvania, USA. November 8, 2013.
- Teaching in LEO (Learning Experience Online) – Faculty. University of Maryland, University College. Adelphi, Maryland, USA. November 3, 2013.
- Helping students become effective lifelong learners. Penn State University. York, Pennsylvania, USA. July 30-31, 2013.
- Smithsonian Institution Computer Security Awareness Training. For Fiscal Year 2013. July 29, 2013.
- Online 1900 (OL 1900). Prove It! The Pennsylvania State University. State College, Pennsylvania, USA. July 2013.
- Plagiarism Week (online). Turnitin Academy. iParadigms, LLC. Oakland, California. April 22-26, 2013
- Course in College Teaching Part II (action research teaching projects) - multi-session event. Spring 2013. The Pennsylvania State University. York, Pennsylvania, USA.

- Bring Your Syllabus to Life with Media Commons. Penn State University, Berks, Pennsylvania, USA. January 21, 2013.
- Visual Learning Network (VLN). The Pennsylvania State University. State College, Pennsylvania, USA. October – November 2012.
- Planning & Teaching Hybrid Courses at UMUC (CTLA 212). University of Maryland, University College. Adelphi, Maryland, USA. October 2012.
- Online 1800 (OL 1800). Accessibility Faculty Development Module The Pennsylvania State University. State College, Pennsylvania, USA. Spring 2013.
- Unlawful Harassment. Prevention for Higher Education faculty. American University. Washington, District of Columbia. October 5, 2012.
- Child Abuse & Mandated Reporter Training. The Pennsylvania State University. State College, Pennsylvania, USA. September 20, 2012. August 19, 2013.
- Laboratory Safety Refresher Training,. The Pennsylvania State University. State College, Pennsylvania, USA. September 7, 2012, September 2013, September 2014.
- Online 2700 (OL 2700). Teaching Presence. The Pennsylvania State University. State College, Pennsylvania, USA. August 6-24, 2012.
- Online 1000 (OL 1000). Orientation to the World Campus. The Pennsylvania State University. State College, Pennsylvania, USA. Spring 2013.
- Citation Inspiration: Pedagogy and Tools to Help Students Cite Right (BEHS 000 s999 Faculty Resource Classroom). University of Maryland, University College. Adelphi, Maryland, USA. June 7 - 16, 2012.
- Gaming Exploration (Edu-Gaming Integration Challenge). The Pennsylvania State University. York, Pennsylvania, USA. May 17 – June 1, 2012.
- SkyWarn^R Training. NOAA's National Weather Service. State College, Pennsylvania, USA. May 19, 2012. York County, Pennsylvania, USA. Spotter Id. Number 165365
- Learning 101: What do fun and games have to do with it? The Pennsylvania State University. York, Pennsylvania, USA. May 17, 2012.
- Online 2000 (OL 2000). The Pennsylvania State University. State College, Pennsylvania, USA. January 2012.
- EMu Methods and Tools. Informatics Branch. Information technology Office. National Museum of Natural History. Washington, District of Columbia, USA. November 17, 2010.
- Introduction to EMu. Informatics Branch. Information technology Office. National Museum of Natural History. Washington, District of Columbia, USA. November 16, 2010.
- Introduction to Geographic Information Systems with ArcView. The Smithsonian Institution Automatic Data Processing Office. Washington, District of Columbia, USA. May 11-12, 2010 (Advanced); November 12-13, 2002 (Intermediate); April 12-13, 2010; December 10-11, 2002 (Introduction); July 10-11, 2000 (Introduction).
- Working with Military Learners (CTLA 612). University of Maryland, University College. Adelphi, Maryland, USA. November 30 to December 7, 2009.
- WebTycho, New Generation Training Session. (CTL 508). University of Maryland, University College. Adelphi, Maryland, USA. October 5 – 12, 2009.
- Using PowerPoint to design presentations (CTL 501). University of Maryland, University College. Adelphi, Maryland, USA. September 28 to October 5, 2009
- Hybrid Courses: Effective Design and Teaching (CTL 212). University of Maryland, University College. Adelphi, Maryland, USA. June 21-28, 2009
- College Cheating Trends. Center for Intellectual Property - 2008-2009 Intellectual Property in Academia Online Workshop Series. University of Maryland, University College. Adelphi, Maryland, USA. April 20-May 1, 2009.

- Using self-review to improve your course. (CTLA 403). University of Maryland, University College. Adelphi, Maryland, USA. March 23-30, 2009.
- Open Educational Resources (CTLA 611). University of Maryland, University College. Adelphi, Maryland, USA. March 2-9, 2009.
- Licensing Issues in Higher Education. Center for Intellectual Property - 2008-2009 Intellectual Property in Academia Online Workshop Series. University of Maryland, University College. Adelphi, Maryland, USA. February 9-20, 2009
- Understanding and Working with Students with Disabilities (CTLA 604). University of Maryland, University College. Adelphi, Maryland, USA. January 26-February 2, 2009.
- Understanding the Needs of the Adult Learner (CTLA 605). University of Maryland, University College. Adelphi, Maryland, USA. November 17 – 24, 2008.
- Google Universe. How to make the most of your students' favorite resource (CTLA 610). University of Maryland, University College. Adelphi, Maryland, USA. November 17 – 24, 2008.
- Time Management in the Online Classroom Workshop (CTL 206). University of Maryland, University College. Adelphi, Maryland, USA. November 10-17, 2008.
- Using Multimedia to Enhance Your WebTycho Classroom (CTL 503). University of Maryland, University College. Adelphi, Maryland, USA. November 3-24, 2008.
- Hybrid Courses: Effective Design and Teaching. University of Maryland, University College. Adelphi, Maryland, USA. October 27 to November 3, 2008.
- Identifying, Diagnosing, and Referring Student Writing Problems (CTLA 606). University of Maryland, University College. Adelphi, Maryland, USA. October 20 - October 27, 2008.
- The Natural History Building Safety Guide Orientation. Smithsonian Institution (Washington, DC, USA). September 28, 2008.
- Practical Instructional Design Principles to Improve Your Course (CTLA 507). University of Maryland, University College. Adelphi, Maryland, USA. September 15 to 22, 2008.
- Beyond Library Basics! Choosing, Using, but Not Abusing Information Resources (CTL 607). University of Maryland, University College. Adelphi, Maryland, USA. September 22 - October 3, 2008.
- Math anxiety: identifying math anxiety and exploring methods to reduce math anxiety (CTL 704). University of Maryland, University College. Adelphi, Maryland, USA. September 15 to 22, 2008.
- Academic Policies That Can Affect You as a Teacher (CTLA 601). University of Maryland, University College. Adelphi, Maryland, USA. September 15 to 22, 2008.
- eCurriculum Workshop. Gallaudet University. Washington, District of Columbia, USA. May 19-22, 2008.
- E-Books: Access to Online Book Resources! University of Maryland, University College. Adelphi, Maryland, USA. July 28 to August 4, 2008.
- Best Practices: Handling Difficult Students in Online and Face-to-Face Classes. University of Maryland, University College. Adelphi, Maryland, USA. July 14 - 21, 2008.
- InDesign. Sterling Ledet & Associates, Inc. Washington, District of Columbia, USA. July 14-15, 2008.
- Best Practices: Rethinking Your Online Teaching. (CTLA204) University of Maryland, University College. Adelphi, Maryland, USA. July 19-26, 2010. June 30 - July 7, 2008.
- PowerPoint Workshop! University of Maryland, University College. Adelphi, Maryland, USA. June 23-1 July 2008.
- Welcome to Refresher Workshop: Focus on the WebTycho Study Group Feature. University of Maryland, University College. Adelphi, Maryland, USA. June 23-29, 2008
- Welcome to the CTL Workshop, Rubrics: Grading Effectively and Efficiently. University of Maryland, University College. Adelphi, Maryland, USA. June 16 – 27, 2008
- GSR Training Program. Gallaudet University. Washington, District of Columbia, USA. May 13-19, 2008.
- Blogs, Vlogs and Wikis workshop. Gallaudet University. Washington, District of Columbia, USA. August 21, 2007.

- So Your Students Aren't Reading!? Penn State University. York, Pennsylvania, USA. July 25, 2007.
- Effective PowerPoint in Instruction. Penn State University. York, Pennsylvania, USA. June 7, 2007.
- Workshop in Laboratory Methods for Arthropod Molecular Systematics. University of Maryland Biotechnology Institute (College Park, Maryland, USA). June 4 - 7, 2007.
- Using e-games to support knowledge building. Penn State University. York, Pennsylvania, USA. June 2, 2007.
- Web 2.0. Penn State University. York, Pennsylvania, USA. May 31, 2007.
- Integrating Technology in the Classroom. Penn State University. York, Pennsylvania, USA. May 30, 2007.
- FORWARD to Professorship. Gallaudet University. Washington, District of Columbia, USA. May 16-18, 2007.
- BarOn Emotional Quotient Inventory. Certification Workshop. Gallaudet University. May 7 - 9, 2007. Washington, District of Columbia, USA. May 7-9, 2007. (*Certified*)
- 2007 National Biotechnology Teacher-Leader Program. Boston, Massachusetts, USA. May 4-6, 2007.
- Civil Treatment for Managers. Gallaudet University. March 8, 2007.
- Information Literacy in the Natural Sciences Workshop. University of Maryland, University College. Adelphi. Maryland, USA. September 29 – October 2006 and May 7-14, 2008
- The ecology and history of the Mojave Desert Region (Course 76, 2006 Faculty Development Program, NSF Short Courses for College Teachers, Chautauqua). Desert Studies Center. Baker, California, USA. May 25-30, 2006.
- Electronic Tools for Learning. Office of E-learning, Gallaudet University. May 16-18, 2006.
- Access – Levels 1 and 2. February 21 and April 5, 2006; respectively. CompUSA and Smithsonian Institution. Washington, District of Columbia
- Lesson Planning. On-line Tutorial. The Center for Teaching and Learning (CTL) Montgomery College, Takoma Park, Maryland. August – September 2005.
- Designing assignments that avoid the pitfalls of plagiarism. On-line Tutorial. The Center for Teaching and Learning (CTL) Montgomery College, Takoma Park, Maryland. August 2005.
- Biology and Classification of the Chironomidae. Gannon College. Erie, Pennsylvania, USA. June 20-24, 2005.
- Case Studies in Science Summer Workshop, University at Buffalo, State University of New York (Buffalo, New York, USA). May 23-27, 2005.
- Effective Teaching Strategies. Online Study Group. The Center for Teaching and Learning (CTL) Montgomery College, Takoma Park, Maryland. January 24 – May 8, 2005.
- Stable Isotope Biogeochemistry. Michigan State University (Lansing, Michigan, USA). May 10 – May 14, 2004.
- WebCT (Web Course Tools). University of Maryland (University College, Adelphi, Maryland, USA). June 8 – July 12, 2003.
- New approaches and techniques for teaching science: addressing environmental problems to stimulate undergraduate learning. Averett University (Danville, Virginia). June 4-8, 2002.
- 11th Annual North American Dendroecological Fieldweek. Universidad Autónoma Agraria “Antonio Narro”. Saltillo, Coahuila, México. August 12-19, 2001.
- National Aeronautics and Space Administration (NASA) Goddard Space Flight Center. Greenbelt, Maryland, USA. June 14-15, 2001.
- Forensic Entomology Workshop. Pennsylvania State University. University Park, Pennsylvania, USA. May 23-25, 2001.
- Research Link 2001 Institute. Saint Leo University. Saint Leo, Florida, USA. February 22-24, 2001.
- Cell and Tissue Culture. California State University. Hayward, California, USA. August 21-26, 2000.

- Leadership & Communication Course. Smithsonian Institution. Monitoring and assessing biodiversity. Front Royal, Virginia. October 31 - November 12, 1999.
- Forging a Link: What High School and College Faculty have to offer each other. Hope College. Holland, Michigan, USA. April 16-17,1999.
- Computer-Assisted Instruction in Anatomy and Physiology Courses. Hope College. Holland, Michigan, USA. March 6-8,1998.
- Molecular Approaches to Immunology. California State University. Long Beach, California, USA. June 16-27, 1997.
- Jump Start. Training for Small, New, Emerging, and Transitioning Museums. Southeastern Museums Conference. Harrodsburg, KY. April 13-16, 1997.
- General Education Mathematics and Science Courses. Hope College. Holland, Michigan, USA. March 7-9,1997.
- Computational Genomics. Cold Spring Harbor Laboratory. Cold Spring Harbor, New York, USA. October 31 – November 5, 1996.
- Workshop on Molecular Evolution. Marine Biology Laboratory. Woods Hole, Massachusetts, USA. August 4-16,1996.
- Scene Investigation. A Forensic Entomology and Anthropology Field Training Workshop. Rensselaer Police Department, IN. May 15-16, 1996.
- Analyses of Environmental Issues Using Case Learning. Macalester College. St. Paul, Minnesota, USA. February 22-25,1996.
- Insect Cell Culture and Recombinant Protein Expression with the Baculovirus Expression Vector System. American *Type Culture* Collection. Rockville, Maryland, USA. October 3-6, 1994.
- Conventional and Molecular Cytogenetic Techniques. American *Type Culture* Collection. Rockville, Maryland, USA. September 26-28, 1994.
- Molecular Techniques in DNA Analysis Applied to Evolution, Ecology, and Systematic Biology: A Laboratory Course. San Francisco State University. California, USA. June 7-11, 1993.
- Molecular Approaches to the Study of Genetics, Evolution, Systematics, Behavior, and Conservation Biology. San Francisco State University. California, USA. January 11-15, 1993.
- Molecular Biology for College Level Instructors. Cerritos College, Los Angeles, California, USA. January 8-9, 1993.
- Recombinant DNA technology, molecular biology, and associated bioethical issues. Workshop and Symposium Program. San Francisco State University, California, USA. July 27 - August 7, 1992.
- International Nematology Course. University of California. Davis, California, USA. July 6-31,1992.
- Tree Climbing Workshop. United States Department of Agriculture. Forest Service. Placerville, California, USA. June 16-18, 1992.
- Practical Molecular Biology for the Teaching Laboratory. University of Southern California. Los Angeles, California, USA. November 15-16, 1991.
- High Performance Liquid Chromatography Workshop. California State University. Fullerton, California, USA. July 22 -August 1, 1991.
- Recombinant DNA Workshop. San Diego State University. July 8-18,1991.
- Biology of Butterflies. Colorado Outdoors Education Center. Florissant, Colorado, USA. June 29 - July 5, 1991.
- Introductory Workshop for the Inexperienced in Molecular Biology. Sonoma State University. Rohnert Park, California, USA. June 16-28, 1991.
- Ethnic Minority Faculty Seminar. Community College League of California and Academic Senate of the California Community Colleges. La Casa de María. Santa Barbara, California, USA. June 16-19, 1991.
- Coleoptera Larvae Workshop. University of Hawai'i and Bishop Museum. Honolulu. June 2-8, 1991.

- Computer-Assisted Image Analysis and Measurement. North Carolina State University. Raleigh, North Carolina, USA. May 13-15, 1991.
- Morphometrics Workshop. Department of Ecology and Evolutionary Biology. State University of New York. Stony Brook, New York, USA. June 10-23, 1990.
- Medical and Veterinary Acarology. Acarology Laboratory, Ohio State University. Columbus. June 20-31, 1988.
- Agricultural Acarology. Acarology Laboratory, Ohio State University. Columbus. June 29 to July 10, 1987.
- Scale Insects Training Session. Department of Entomology, University of Maryland. College Park, Maryland, USA. May 29 to June 6, 1987.
- Soil Acarology. Acarology Laboratory, Ohio State University. Columbus. June 23 to July 11, 1986.
- Parasitic Hymenoptera Training Session. Department of Entomology, University of Maryland. College Park, Maryland, USA. June 2-7, 1986.
- Introductory and General Acarology. Acarology Laboratory, Ohio State University. Columbus. June 24 to July 17, 1985.
- Simposio-Taller "Uso de técnicas moleculares en estudios filogenéticos y evolutivos". Universidad de Los Andes. Mérida, Venezuela. November 23 to December 4, 1981.

TAXA NAMED

- Ancyranoctes* Fain and Santiago-Blay 1993. *Acarologia* 34:337. (Acari: Histiostomatidae). Distribution: Puerto Rico.
- A. virkki* Fain and Santiago-Blay 1993. *Acarologia* 34:339. (Acari: Histiostomatidae). Distribution: Puerto Rico.
- Apicrenus* Maldonado, Santiago-Blay, and Poinar 1993. *Entomology Scand.* 24:140. (Heteroptera: Reduviidae). Early to Middle Miocene. Distribution: Dominican Republic amber.
- A. fossilis* Maldonado, Santiago-Blay, and Poinar 1993. *Entomology Scand.* 24:140. (Heteroptera: Reduviidae). Early to Middle Miocene. Distribution: Dominican Republic amber.
- Diphleps yenli* Santiago-Blay and Poinar 1993. *Proc. Entomology Soc. Amer.* 95:71. (Heteroptera: Miridae). Early to Middle Miocene. Distribution: Dominican Republic amber.
- Electrochaerilinae* Santiago-Blay, Fet, Soleglad, and Anderson. 2004. *Revista Ibérica de Aracnología.* 9:4 (Scorpiones: Chaerilidae). Albian (Cretaceous). Distribution: Burmese amber.
- Electrochaerilus* Santiago-Blay, Fet, Soleglad, and Anderson. 2004. *Revista Ibérica de Aracnología.* 9:4 (Scorpiones: Chaerilidae). Albian (Cretaceous). Distribution: Burmese amber.
- Electrochaerilus buckleyi* Santiago-Blay, Fet, Soleglad, and Anderson. 2004. *Revista Ibérica de Aracnología.* 9:4 (Scorpiones: Chaerilidae). Albian (Cretaceous). Distribution: Burmese amber.
- Haplodontus* Poinar and Santiago-Blay 1989. *J. New York Entomology Soc.* 97:126. (Solpugida: Ammotrechidae). Early to Middle Miocene. Distribution: Dominican Republic amber.
- H. proterus* Poinar and Santiago-Blay 1989. *J. New York Entomology Soc.* 97:126. (Solpugida: Ammotrechidae). Early to Middle Miocene. Distribution: Dominican Republic amber.
- Homalocoris erythrogaster* Maldonado and Santiago-Blay 1991. *Proc. Entomology Soc. Amer.* 93:703. (Heteroptera: Reduviidae). Distribution: Arizona, USA
- Janbechynea (Bothroscelis) georpauljohnringo* Santiago-Blay 2004. *In*, New developments in the biology of Chrysomelidae. P. Jolivet, J. A. Santiago-Blay, and M. Schmitt (Editors). SPB Academic Publishers bv. The Hague, The Netherlands. 803 pp. p. 37 in full version of this chapter located in the CD portion of the book. Distribution: Mexico.
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