

MICHELLE L. ZJHRA

Curriculum Vitae

Asian University for Women, 1100 Mass. Ave. – Suite 300, Cambridge, MA 02138 USA
Fax 617.354.0247, Tel 617.914.0512, email mzhjra@gmail.edu

EDUCATION

Ph.D. 1998 Botany. Department of Botany, University of Wisconsin, Madison.
B.A. 1990 Biology. Reed College, Portland, Oregon. Thesis advisor: Brian Bock.

PROFESSIONAL EXPERIENCE

Inaugural Dean of Natural Sciences, Asian University for Women, 2008-present. Design founding Liberal Arts and Sciences curriculum, recruit/hire 14 inaugural faculty, fund-raising, building planning, and actively contribute to all other aspects involved in opening AUW university.

Fulbright Scholar, “Outcomes-based Curriculum Design, Student-Centered Learning, and Credit-based Systems Workshop Series,” National Sciences University, Ho Chi Minh City, **Vietnam**. Jan-June 2008. Create Faculty Development resources, lead workshops throughout Vietnam to facilitate credit-based and curriculum change.

Center for Excellence in Teaching Faculty Fellow, “Studio Sessions for Activating Learning” Georgia Southern University, Statesboro, GA. 2007. Create web-based active-learning resources; lead “Studio Sessions for Activating Learning” using case-based approaches across disciplines; individual mentoring of faculty on curriculum change.

Pedagogy Workshop Leader: southern Vietnam, hosted by the National University of **Vietnam**, July 2007; Conservation Biology program, the National University of **Rwanda**, July 2007; “Teaching Conservation Beyond Traditional Pedagogical and Discipline Boundaries” for Society for Conservation Biology meeting, **South Africa** 2007. Create materials; budget; work with other collaborating institutions.

Associate Professor of Biology/Director of Herbarium & Educational Outreach, Georgia Southern University, Statesboro, GA. 2007-2008. Assoc. Prof.: Design and implement innovative, evidence-based, student-centered curriculum; conduct scientific and educational research; mentor colleagues on teaching; serve as active member of Curriculum committees; write grants, manage budgets, manage student workers and graduate students. Herbarium Director: Provide leadership on K-12 outreach opportunities; create web-based educational resources for K-12 teachers; liaison with area teachers on outdoor classrooms for hands-on educational approaches; curate the botanical collection; manage staff and volunteers; fund-raise, manage budgets, recruit staff and volunteers.

Assistant Professor of Biology/Director of Herbarium & Education Outreach, Georgia Southern University, Statesboro, GA. 2003-2007. See Assoc. Prof. & Director (above).

Assistant Professor of Biology/Director of Herbarium. Keene State College, Keene, N.H. 2000-2003. Asst. Prof.: Design and implement innovative curriculum; conduct scientific research; write grants, manage budgets, manage student workers. Herbarium Director: curate the botanical collection; manage volunteers.

NSF Postdoctoral Research Fellow, “Testing Phylogenetic and Ecological Hypotheses of Cauliflory,” University of Arizona, Tucson, AZ. 1998-2000. Supervise staff, manage budgets, conduct international research, interact with international government officers, NGOs and locals.

In-Country Program Director, Parataxonomist Plant Collector Program, Missouri Botanical Garden, Madagascar. 1994-1995. Supervise staff, manage budgets, trains collectors, interface with administrative collaborators.

Madagascar Project Coordinator, Herbarium curation, Missouri Botanical Garden, St. Louis, Missouri. 1992-1993. Curate collection.

STRENGTHS

Strategic thinking, innovating for the future, transforming innovative ideas into immediate action, strong productivity, self-starter, independent and team worker.

LEADERSHIP & SYNERGISTIC ACTIVITIES

International Program Leadership:

Fulbright Scholar: Outcomes-based Curriculum Design, Student-Centered Learning, and Credit-based Systems Workshop Series, Vietnam, January – June 2008.

International Faculty Development forum leader and module testing for The Network of Conservation Educators and Practitioners (NCEP), the Center for Biodiversity and Conservation at the American Museum of Natural History February and November 2007.

Science Pedagogy workshop leader: southern Vietnam educators, hosted by the National University of **Vietnam**, July 2007; Conservation Biology program, the National University of **Rwanda**, July 2007; “Teaching Conservation Beyond Traditional Pedagogical and Discipline Boundaries” for Society for Conservation Biology meeting, **South Africa** 2007.

Administration of Study Abroad Biology Program, the Czech Republic 2005, 2006.

Steering Committee & Education Outreach Advisor, Puerto Vallarta Botanical Garden, 2006-2008.

Initiated working group of world’s experts on tropical tree family Bignoniaceae.

Organized International Botanical Congress 2005 Symposium and Workshop on Bignoniaceae.

Southeastern U.S. Program Leadership:

South East Network of Expertise & Collections **Education Outreach leader and workshop organizer** & Steering Committee, 2007-2008.

University-wide Program Leadership:

Center for Excellence in Teaching Faculty Fellow, Georgia Southern University 2007.

Guided-Inquiry (for faculty) and **Supplemental Instruction** (for students): **Curriculum Development and Mentoring** for incorporating active learning into core Biology courses 2007.

Director Georgia Southern University Herbarium, 2003-2008.

Conceptualized Sustainability Initiative & Center, Georgia Southern University, 2007-2008

Co-initiated Graduate Sustainability Seminar on local and global inter-related resource scarcity and conservation issues, with campus-centered service project, involved students in “Campus and Community Sustainability” conference, Tallahassee, FL, 2007.

LANGUAGES

Mother tongue: English. Other: Spanish, Swedish, French. Basic communication: German, Malagasy.

INTERNATIONAL

TRAINING, TEACHING & RESEARCH EXPERIENCE

Vietnam (May-June 2007, January-June 2008); **Rwanda** (January 2007, July 2007); **South Africa** (July 2007); **Czech Republic** (July 2005, July 2006); **England** (September 1999, May 2005); **Netherlands** (June 2005); **Finland** (June 2005); **Puerto Rico** (June 2004); **Madagascar** (Nov. 1991-May 1992, Jun.-Aug. 1993, Aug. 1994-Aug. 1995, Jan.-May 1997, Jan. 1998, Jan.-Feb. 1999, June 2002); **Panama** (Sept.-Nov. 1990, June-July 2001); **Borneo** (January-March 2001); **Sulawesi** (November 1998); **Costa Rica** (July 1989-Jan. 1990).

FELLOWSHIPS AND GRANTS

Science Education & Innovation Research

NSF-Partnership for Reform in Science and Mathematics: “**Outdoor Classroom Use & Effectiveness.**” PIs: Altman (Botanical Garden), Cawthorn (Biology Education), Zjhra (Biology). **\$52,620.** Sept 2007-Sept 2008.

Georgia Southern University Curriculum Development Grant: “**Service Learning in Biology courses.**” PIs Zjhra & McBrayer. **\$3000.** 2007-2008.

Georgia Southern University Catalyst: “**Sustainability Initiative.**” PIs: Zjhra and Leege. **\$30,000.** 2006-2008.

NSF-Partnership for Reform in Science and Mathematics: “**Integrating Floristics into the K-12 Curriculum.**” PI: Zjhra. **\$19,650.** June 2006 - May 2007.

Georgia Southern University Faculty Development Research Grant: “**Incorporate Process-Oriented Guided Inquiry Learning into non-majors Biology courses.**” PI: Zjhra. **\$3,000.** Summer 2006-Spring 2007.

Georgia Southern University Faculty Service Grant: “**GSU Botanical Collection: Implementing Broader Accessibility.**” PI: Zjhra. **\$2,800.** Summer 2006.

NSF-Partnership for Reform in Science and Mathematics: “**Course Curriculum Partnership – Implementation.**” PIs: Zjhra, M. and L. Groover. **\$2,533.** December 2005-August 2005.

NSF-Partnership for Reform in Science and Mathematics: “**Course Curriculum Partnership – Development.**” PIs: Zjhra, M. and L. Groover. **\$5,000.** July-August 2004.

NSF-Partnership for Reform in Science and Mathematics: “**Curriculum Reform for the Introductory Biology Sequence in the Department of Biology.**” PIs: M. Cawthorn, L. Leege, M. Zjhra. **\$5,000.** July - September 2004.

Science Research

NSF-DEB-Ecology: **Collaborative Research: Components of Floral Attraction in a functionally specialized but ecologically generalized flower guild.** PIs: Zjhra, Ragusso (Cornell), Boyd (Warren Wilson College). **\$552,894.** June 2008-May 2011.

- NSF-NESCent Core Participant: “**Catalyst Workshop on Historical Biogeography, Community Structure & Conservation of Malagasy Biota.**” PIs: Yoder and Kremen. June 2006-May 2007.
- NSF-RCN-MORPH cross-disciplinary ‘evolution of morphological diversity’ training grant: “**Identification of genes that regulate cauliflory.**” PI: Zjhra. \$3,000. May 2006.
- NSF-Ecology-ROA: “**Floral CO₂ in the “Wine-Red” Pollination Guild.**” ROA supplement to IBN 0444163. PIs: Zjhra and Raguso. \$9,510. Spring 2006.
- American Association for the Advancement of Science –Women’s International Science Collaboration Program: “**Initiation of a Scientific Partnership Between Women Scientists of Madagascar and the U.S.A.**” PIs: Zjhra and Kaplin. \$9,950. April 2002-2003.
- NSF-Start-Up Grant: “**Floral Adaptation to Pollinators: evolution of the bat flower syndrome in Bignoniaceae.**” PI: Zjhra. \$35,000 matching funds. February 2001 – 2003.
- NSF-Postdoctoral Research Fellowship in Biosciences: “**Testing Phylogenetic and Ecological Hypotheses of Cauliflory,**” PI: Zjhra. \$80,000. 1998-2000.
- Stanley Smith Horticultural Trust: “**Capacity Building: Friends of Vallarta Botanical Gardens.**” PI: Zjhra. \$23,860. 2008-2009. Pending.
- Stanley Smith Horticultural Trust: “**Training and Interpretive Exhibits at the Vallarta Botanical Garden, Mexico.**” PI: Zjhra. \$10,000. 2007-2008.
- American Orchid Society: “**Planning Charrette for the Orchid Conservation Plan of the Cabo Corrientes region, Mexico.**” PIs: Zjhra, Rodriguez. \$10,000. May 2008-April 2009.
- Georgia Southern University Faculty Research Grant: “**Floral Adaptations to Bats.**” PIs: Zjhra and Hutcheon. \$10,000. July 2006 - June 2007
- Georgia Southern University Student-Faculty Research Grant: “**Unraveling a Cryptic Species Complex with Comparative Molecular Techniques.**” PIs: Zjhra, Fuentes. \$3,000. Jan.–Jun 2006.
- Georgia Southern University College Office of Undergraduate Research. “**Phylogenetic diversity analysis as a method for determining conservation prioritization in Malagasy genus Rhodocolea.**” PIs: Zjhra and Way. \$2,500. Spring-Fall 2006.
- Georgia Southern University Travel Award: “**International Bignoniaceae Symposium and Workshop.**” PI: Zjhra. \$1,400. July 2005.
- Georgia Southern University Faculty Research Grant: “**Investigating how trees grow flowers on the trunk.**” PI: Zjhra. \$5,327. Summer 2004.
- Keene State College Faculty Development Grant: “**Characterizing Floral Odors in Bignoniaceae and Annonaceae.**” PI: Zjhra. \$2,500. Spring 2002.
- Keene State College Faculty Enhancement Grant: “**Evolution of Pollination Systems within Malagasy Coleae Utilizing Molecular Systematics and the Comparative Method,**” Deep Morphology Conference, Vienna. PI: Zjhra. \$2,000. October 2001.
- Keene State College Faculty Development Grant: “**Characterization of the Role of Floral Odors in Cauliflory.**” PI: Zjhra. \$1,755. Summer 2001.
- Botanical Society of America Conant Travel Award, for presenting at the International Botanical Congress. PI: Zjhra. \$325. 1999.

Collections

Georgia Southern University Faculty Service Grant: “**GSU Biological Collections: Rehabilitation and Digital Accessibility**” PIs McBrayer & Zjhra. **\$3000**. 2007-2008.
NSF-RCN-SENREC Core Participant: “**South East Network of Expertise & Collections.**” PI: Zack Murrell. **\$498,887**. Jan 2006-Jan 2011.
Georgia Southern University Catalyst Grant: “**Preservation of Biodiversity in the Southeastern USA Coastal Plain.**” PIs: Leege, Wolfe, and Zjhra. **\$25,000**. Summer 2005-2006.

Grants Received as a Graduate or Undergraduate Student:

NSF-Dissertation Improvement Grant: : “Phylogenetics, Biogeography, and Pollination Ecology of Endemic Malagasy Coleeae (Bignoniaceae).” **\$15,249**. 1995.
Smithsonian Short-Term Tropical Research Fellowship: “Ethnobotany study with the Emberá-Choco Indians in the Darién, Panama.” **\$10,000**.
Allen Research Fund Grant, University of Wisconsin Herbarium, UW-Madison. **\$5,000**. 1997.
Davis Summer Fellowship, Department of Botany, UW-Madison. **\$3,000**. 1996
Bat Conservation International Grant: “Frugivory by Flying Foxes of Madagascar.” **\$2,000**. 1993.
Davis Fund Research Grant, Dept. Botany, UW-Madison. **\$1500** 1996; **\$1200** 1994; **\$1200** 1993.
Xerces Society Research Grant: “Frugivory and seed dispersal by the Flying Fox, *Pteropus rufus*, on the Masoala Peninsula, Madagascar.” **\$500**. 1993.
American Society of Plant Taxonomists Student Research Grant. **\$500**. 1996.

PUBLICATIONS

Science Education & Innovation

Zjhra, M.L. (In Press). A shift to a credit-based system: necessary changes in curriculum and the role of teachers in Viet Nam. Vietnam Educational Review, Vietnam, Ministry of Education and Training.
Hagenbuch, B.E., N. Bynum, E. Sterling, A.H. Bower, J.A. Cigliano, B.J. Abraham, C. Engels, J.F. Mull, J.D. Pierce, M.L. **Zjhra**, J.M. Rhode, S.R. Ketcham, and M.-A. Mayer. **2008**. A Multi-Tiered Assessment Framework for Biodiversity Education. Teaching Issues and Experiments in Ecology. (in review)
Bynum, N., E.J. Sterling, J.P. Gibbs, B. Kaplin, A.L. Porzecanski, M. Rao, M. **Zjhra**. **2008**. Addressing the challenges for conservation training around the globe: the role of higher education. (in prep.)

Science

Olmstead, R.G., M.L. **Zjhra**, L.G. Lohmann, S.O. Grose, and A.J. Eckert. 2009. A molecular phylogeny of Bignoniaceae. American Journal of Botany. Submitted.
Kremen, C., A. Cameron, A. Moilanen, S. Phillips, C.D. Thomas, H. Beentje, J. Dransfeld, B. L. Fisher, F. Glaw, T.C. Good, G.J. Harper, R. Hijmans, D. C. Lees, E. Louis, R.A.

- Nussbaum, C.J. Raxworthy, A. Razafimpahanana, G.E. Schatz, M. Vences, D. R. Vietes, P. C. Wright, M. L. **Zjhra**. 2008. Aligning conservation priorities across taxa in Madagascar with high-resolution planning tools. **Science** 320: 222-226.
- Zjhra**, M.L. 2008. Facilitating Sympatric Species Coexistence via Pollinator Partitioning in Endemic Tropical Trees of Madagascar. **Plant Systematics and Evolution** 271: 157-176.
- Zjhra**, M.L. 2006. New Taxa of Coleeae (Bignoniaceae) from Madagascar. I. A collection from Masoala Peninsula. **Annales Botanici Fennici** 43: 225-239.
- *Good, T.C., M.L. **Zjhra**, C. Kremen. 2006. Radiation and risk. Dealing with data deficiency in classifying extinction risk: a case study of a radiation of Bignoniaceae from Madagascar. **Conservation Biology** 20: 1099-1110.
- *Goodrich, K.R., M.L. **Zjhra**, C.A. Ley* and R.A. Raguso. 2006. When flowers smell fermented: the chemistry and ontogeny of yeasty floral scent in Pawpaw (*Asimina triloba*: Annonaceae). **International Journal Plant Sciences** 167: 33-46.
- Zjhra**, M.L. and B.A. Kaplin. 2004. Breeding systems and genetics of tropical canopy trees. *In* Forest Canopies. M. Lowman and B. Rinker (eds.) Academic Press. Pp. 397-412.
- Zjhra**, M.L., K.J. Sytsma, and R.G. Olmstead. 2004. Delimitation of Malagasy tribe Coleeae and implications for fruit evolution in Bignoniaceae inferred from a chloroplast DNA phylogeny. **Plant Systematics and Evolution** 245: 55-67.
- Sytsma, K.J., A. Litt, M.L. **Zjhra**, J.C. Pires, M. Nepokroeff, and P. Wilson. 2004. Clades, clocks, and continents: historical and biogeographical analysis of Myrtaceae Vochysiaceae and relatives in the southern hemisphere. **International Journal of Plant Sciences** 165: S85-S105.
- Zjhra**, M.L. 2003. Malagasy Bignoniaceae: phylogenetics and evolution of pollination systems. S. Goodman and J. Benstead, eds. Natural History of Madagascar. University of Chicago Press. Pp. 425-430.
- Sytsma, K.J., J. Morawtz, J.C. Pires, M. Nepokroeff, E. Conti, **M.L. Zjhra**, J.C. Hall, and M.W. Chase. 2002. Urticalean Rosids: circumscription, Rosid ancestry, and phylogenetics based on *rbcL*, *trnL-F*, and *ndhF* sequences. **American Journal of Botany** 89: 1531-1546.
- Givnish, T.J., T.M. Evans, M.L. **Zjhra**, P.E. Berry, and K.J. Sytsma. 2000. Molecular evolution, adaptive radiation, and geographic diversification in the amphiatlantic family Rapateaceae: evidence from *ndhF* sequence data. **Evolution** 54(6): 1915-1937
- *indicates student first-author**

PROFESSIONAL PRESENTATIONS

Science Education & Innovation

- Zjhra**, M.L. November 2007. Invited Workshop Presenter, The Network of Conservation Educators and Practitioners (NCEP), the Center for Biodiversity and Conservation at the American Museum of Natural History, "Active Learning."
- Hagenbuch, B.E., M. L. **Zjhra**, S.K. Wilson, E.J. Sterling, J.M. Rhode, J.D. Pierce, M.I. Palmer, J.F. Mull, M.-A. Mayer, S.R. Ketcham, J.P. Gibbs, C.A. Engels, J.A. Cigliano, N. Bynum, A.H. Bower, N.M. Anthony, B.J. Abraham, and M. Foster. 2007. Poster, Ecological Society of America, "Expanding Assessment and Learning in Biodiversity Conservation

Education: A Methodological Framework.”

- Bower, A.H., B.J. Abraham, J.A. Cigliano, C. Engels, B.E. Hagenbuch, S.R. Ketcham, M.-A. Mayer, J.F. Mull, J.D. Pierce, J.M. Rhode, M.L. **Zjhra**. Emerging Tools in Teaching Biodiversity Across Disciplines. **2007**. Poster, Ecological Society of America, “Emerging Tools in Teaching Biodiversity Across Disciplines.”
- Zjhra, M.L. April **2007**. Invited Talk, SERNEC Symposium at American Southeastern Biologists, “Herbaria role in Botany Outreach.”
- Zjhra, M.L. October **2005**. Invited Speaker, GSU RISE-RIG Seminar Series, “Recent advances in project-based learning in science courses.”

Scientific Research

- Zjhra, M.L. June **2007**. Invited Talk, University of Natural Sciences, Vietnam, “Madagascar Plant Diversity: coexistence, speciation, extinction.”
- Zjhra, M.L. May **2007**. Invited Talk, Can Tho University, Vietnam, “Biological Monitoring of Wetlands: Monitoring Plants.”
- Zjhra, M.L. April **2007**. Invited Talk, SERNEC Symposium at American Southeastern Biologists, “Problems and Progress: Georgia Herbaria.”
- Zjhra, M.L. January **2007**. Invited Talk, National University of Rwanda, “Madagascar Plant Diversity & Conservation: coexistence, speciation, extinction.”
- Zjhra, M.L. August **2006**. GSU Seminar Series, “Cauliflory: Molecular Approaches.”
- *Spriggs, A. and M.L. **Zjhra**. July **2006**. NSF-REU Poster and Presentation: “Evolution of Bat-Pollinated Flowers in Bignoniaceae.”
- Zjhra, M.L. June **2006**. Invited Speaker, NESCent for Historical Perspectives on the Distribution of Biodiversity in Madagascar: “Phylogenetics, Speciation and Extinction in endemic Malagasy tribe Coleae (Bignoniaceae).”
- Zjhra, M.L. May **2006**. Invited Speaker, New York Botanical Garden. “A Survey of Caulifloroy: Anatomy, Taxonomy & Ecology.”
- Zjhra, M.L. May **2006**. Invited Speaker, GSU REU Presentations, “Origin of Species in Malagasy Bignoniaceae.”
- *Way, P.I. and M.L. **Zjhra**. April **2006**. GSU COUR Presentation and Poster: “Phylogenetic diversity analysis as a method for determining conservation prioritization in Malagasy genus *Rhodocolea*.”
- Zjhra, M.L. October **2005**. Invited Speaker, Georgia Native Plant Society, “Herbaria: Bridging Molecular and Floristic Biology.”
- Zjhra, M.L. July **2005**. International Botanical Congress, Vienna, Symposium Leader: “Bignoniaceae Systematics, Ecology, Evolution and Applications.”
- Zjhra, M.L. July **2005**. International Botanical Congress, Vienna, Bignoniaceae Symposium Keynote Speaker: “Evolution of Cauliflory in Coleae.”
- Zjhra, M.L. July **2005**. International Botanical Congress, Vienna 2005, Bignoniaceae Workshop Organizer and Leader.
- Zjhra, M.L. May **2005**. Georgia Plant Conservation Alliance “Preservation of Biodiversity in the Southeastern USA Coastal Plain.”

- Zjhra, M.L. March **2005**. Instituto Venezolano de Investigaciones Científicas, Caracass.
“Ecology and Evolution of island endemic Coleeae (Bignoniaceae) of Madagascar.”
- *Goodrich, K.R., M.L. Zjhra, R.A. Raguso. **2003**. Botanical Society of America Poster: “Sex- and time-specific scent production in Pawpaw (*Asimina triloba*: Annonaceae) flowers.”
- *Ley, C., M.L. Zjhra, R.A. Raguso. **2003**. Botanical Society of America: “How do Pawpaw (*Asimina triloba*) flowers attract their pollinators?”
- Zjhra, M.L. October **2002**. Invited Colloquium speaker, Marie Selby Botanical Gardens,
“Biogeography and Evolution of cauliflory in Malagasy Bignoniaceae.”
- Zjhra, M.L. February **2002**. Invited Colloquium Speaker, Princeton University, “Phylogenetics of Bignoniaceae on Madagascar and the evolution of plant-animal interactions.”
- Zjhra, M.L. October **2001**. Invited speaker, Center for Tropical Ecology & Conservation, Keene, New Hampshire: “Plant endemism and conservation implications for the Masoala Peninsula, Madagascar.”
- Zjhra, M.L. August **2001**. American Society of Plant Taxonomists/American Institute of Biological Sciences Presentation: “Cauliflory: seeing the flowers for the trees.”
- Zjhra, M.L. September **1999**. Invited Poster, Biology and Chemistry of Floral Scent, Gordon Research Conference, Oxford, England: “Floral scents of the Coleeae (Bignoniaceae), cauliflorous treelets of Madagascar.”
- Zjhra, M.L. August **1999**. Invited speaker, International Botanical Congress, St. Louis: “Speciation and endemism in Malagasy Bignoniaceae.”
- Zjhra, M.L., K.J. Sytsma, and R.G. Olmstead. **1998**. American Society of Plant Taxonomists/American Institute of Biological Sciences Presentation: “Small steps, bignons: historical biogeography of Malagasy Bignoniaceae.”
- Zjhra, M.L. and K.J. Sytsma. **1998**. American Society of Plant Taxonomists/American Institute of Biological Sciences Presentation: “Paramours and semaphores: pollination biology of Malagasy Bignoniaceae.”
- *undergraduate first-author**

POPULAR PRESENTATIONS

- “People, Poverty, and the Environment.” National Economics University, Hanoi; Social Sciences & Humanities University, Ho Chi Minh City, Viet Nam. 2008.
- “Sustainability: Local & Global Issues.” Chevron Oil, Ho Chi Minh City; Social Sciences & Humanities University, Ho Chi Minh City; National Economics University, Hanoi; International School of Ho Chi Minh City: staff, high school & middle school, 5th grade, 3rd & 4th grades, 1st & 2nd grades. Viet Nam. 2008.
- “Plant Reproduction.” Guest presenter, 5-8th grades, Charter Conservancy for the Arts, Technology and Sciences, Statesboro, GA. 2006.
- “Pollination & Pollinators.” Hands-on activities for Family Science Nights, K-5 grades, GA. 2005.
- “Cooking and Chemistry.” 6 weeks special topics, 5th-8th grades, Peterborough, N.H. 2002.
- “Mega Plants.” Weekly interactive botany activities with First Graders, Keene, N.H. 2000-2001.
- “Plants that bite back.” Preschool & Kindergarten, Tucson, AZ. 1999, 2000.
- “Madagascar: the big red island.” K-8th grade, Forks, Washington. 1992, 1995, 1997.

COLLABORATORS

Education Collaborators:

Laura Regassa (Georgia Southern University); **Nora Bynum** (The Network of Conservation Educators and Practitioners at the Center for Biodiversity and Conservation, the American Museum of Natural History); **Beth Kaplin** (National University of Rwanda; Antioch New England Graduate School); **Lissa Leege** (Georgia Southern University); **Carolyn Altman** (Georgia Southern Botanical Garden).

Scientific Collaborators Collaborators:

Claire Kremen (U.C. Berkley); **James M. Hutcheon** (Georgia Southern University); **Richard Olmstead** (University of Washington); **Robert Raguso** (Cornell University); **Amy Boyd** (Warren Wilson); **Tran Triet** (Vietnam National University); **Yari Jeannoda** (University of Antananarivo, Madagascar); **Tatjana Good** (IUCN, University of Virginia); **Shaotian Chen** (University of Kunming, China)

ADVISORS

Postdoc Advisor: **Lucinda A. McDade**, Rancho Santa Anna Botanic Garden, CA

Ph.D Advisor: **Kenneth J. Sytsma**, Dept. of Botany, University of Wisconsin-Madison

Ph.D Committee: **Thomas Givnish**, **Paul Berry**, **Linda Graham** Dept. of Botany, Univ WI;

David Spooner, Dept. of Horticulture, Univ Wisc; **Robert Bleiweiss**, Dept. Zoology, Univ WI

REFEREES

Education Referees:

Dr. **Hoon Eng** Vice Chancellor, Asian University for Women; tel. 617-914-0500; email:

hooneng.khoo@asian-university.org

Dr. **Nora Bynum** The Network of Conservation Educators and Practitioners; tel. 919-452-1388; email:

nbynum@amnh.org

Dr. **Beth Kaplin** Environmental Studies, Antioch New England Graduate School (half the year);
Conservation Curriculum Leader, National University of Rwanda (half the year); tel.
603-283-2328; email bkaplin@antiochne.edu

Dr. **Lissa Leege** Sustainability Director, Georgia Southern University; tel. 912-681-0800; email:

leege@georgiasouthern.edu

Dr. **Laura Regassa** GK-12: Molecular Biology Initiative, Georgia Southern University; tel. 912-486-7524; email lregassa@georgiasouthern.edu

Science Referees:

Dr. **Amy Boyd**, Warren Wilson College; tel. 828-771-2018; email aboyd@warren-wilson.edu

Dr. **Robert Raguso** Cornell University; tel 607-254-4353; email rar229@cornell.edu

Dr. **Richard Olmstead** University of Washington; tel 206-543-6594; email olmstead@u.washington.edu