## WENDY L. CLEMENT

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## **PROFESSIONAL POSITIONS**

Department of Biology Assistant Professor

The College of New Jersey, 2012 - present

Department of Ecology and Evolutionary Biology Lecturer

Yale University, 2010 – 2012

Postdoctoral Associate Department of Ecology and Evolutionary Biology

Yale University, 2008 – 2012

**Curatorial Assistant** Bell Museum of Natural History Herbarium

University of Minnesota, Minneapolis Minnesota, Fall 2004

#### **EDUCATION AND TRAINING**

Postdoctoral Associate, Department of Ecology and Evolutionary Biology Post-doc

Yale University; Advisor: Michael J. Donoghue

Ph D Plant Biology (Minor in Ecology and Evolution), University of Minnesota

Graduated: August 2008

*Thesis*: Phylogeny and Pollination Ecology of Castilleae (Moraceae): Investigating the evolutionary history of the figs' closest relatives

Advisor: George D. Weiblen; Committee members: Sharon Jansa (EEB), Scott Lanyon (EEB), Imke Schmitt (Plant Biology), Peter Tiffin (Plant

Biology), Cynthia Weinig (Plant Biology)

B.A. Biology (Magna Cum Laude; minor in Mathematics), Ithaca College, Ithaca, NY

Honors Thesis: Phylogenetic position and biogeography of Hillebrandia

sandwicensis (Begoniaceae): A rare Hawaiian relict.

Advisor: Susan M. Swensen

#### **PUBLICATIONS**

Murdoch, K.C., H.J. Ndangalasi, M. LeCaptain, W.L. Clement, K.A. Feldheim, and N.J. Cordeiro. 2012. Isolation and development of 13 new, polymorphic microsatellite loci for a threatened, understory tree *Mesogyne insignis*, (Moraceae) from the Eastern Arc Mountains. Conservation Genetics Resources. doi: 10.1007/s12686-012-9786-3.

Weber, M.G., W.L. Clement, M.J. Donoghue, A.A. Agrawal. 2012. Phylogenetic and experimental tests of interactions among mutualistic plant defense traits in Viburnum (Adoxaceae). American Naturalist. 180(4):450-463.

Cruaud, A, N. Rønsted, B. Chantarasuwan, L.S. Chou, W.L. Clement, A. Couloux, B. Cousins, G. Genson, R.D. Harrison, P.E. Hanson, M. Hossaert-McKey, R. Jabbour-Zahab, E. Jousselin, C. Kerdelhué, F. Kjellberg, C. Lopez-Vaamonde, J. Peebles, Y.-Q. Peng, R.A.S.

- Pereira, T. Schramm, R. Ubaidillah, S. van Noort, G.D. Weiblen, D.-R. Yang, A. Yodpinyanee, R. Libeskind-Hadas, J.M. Cook, J.-Y. Rasplus, and V. Savolainen. 2012. An Extreme Case of Plant-Insect Co-Diversification: Figs and Fig-Pollinating Wasps. *Systematic Biology*. 61(6):1029-1047. [cover]
- Moe, A.M., <u>W.L. Clement</u>, G.D. Weiblen. 2012. Rapid evolution of pollinator-mediate plant reproductive isolation. In R.S. Singh, J. Xu and R.J. Kulathinal (eds), *Rapidly Evolving Genes and Genetic Systems*. Oxford University Press, 336 pp.
- Schmerler, S.B., <u>W.L. Clement</u>, J.M. Beaulieu, D.S. Chatelet, L. Sack, M.J. Donoghue, E.J. Edwards. 2012. Evolution of leaf form correlates with tropical-temperate transitions in *Viburnum* (Adoxaceae). *Proceedings of the Royal Society B*. doi:10.1098/rspb.2012.1110.
- <u>Clement, W.L.</u> and M.J. Donoghue. 2012. Barcoding success as a function of phylogenetic relatedness in *Viburnum*, a clade of woody angiosperms. *BMC Evolutionary Biology*. 12:73. [highly accessed]
- Federman, S., C. Hysenei, <u>W.L. Clement</u>, G. Caccone. 2011. Isolation of 13 novel highly polymorphic microsatellite loci for the Amazonian Palm *Mauritia flexuosa* L. (Arecaceae). *Conservation Genetics Resources*. 4(2): 355-357.
- <u>Clement, W.L.</u> and M.J. Donoghue. 2011. Dissolution of *Viburnum* section *Megalotinus* (Adoxaceae) of Southeast Asia and its implications for morphological evolution and biogeography. *International Journal of Plant Sciences*. 172(4): 559-573. [cover]
- Desurmont, G.A, M.J. Donoghue, <u>W.L. Clement</u>, A.A. Agrawal. 2011. Evolutionary history predicts plant defense against an invasive pest. *PNAS*. 108(17): 7070-7074.
- <u>Clement, W.L.</u>, and G.D. Weiblen. 2009. Morphological evolution of the mulberry family (Moraceae). *Systematic Botany*. 34(3): 530-552.
- Rønsted, N., G.D. Weiblen, <u>W.L. Clement</u>, N. Zerega, and V. Savolainen. 2008. Reconstructing the phylogeny of figs (*Ficus*, Moraceae) to unravel the origin of fig-wasp mutualisms. *Symbiosis*. 45: 45-56.
- Weiblen, G.D. and <u>W.L. Clement</u>. 2007. Review: Flora Malesiana. Series I. Volume 17 parts 1 and 2. *Edinburgh Journal of Botany*. 64(3):431-433.
- Silvieus, S.I., <u>W. L. Clement</u>, and G.D. Weiblen. 2008. Cophylogeny of figs, pollinators, gallers and parasitoids. In K. J. Tilmon (ed.), *Specialization*, *Speciation*, and *Radiation The Evolutionary Biology of Herbivorous Insects*. University of California Press, Berkeley, California. p 225-239.
- Tebbitt, M.C., L. Lowe-Forrest, A. Santoriello, <u>W.L. Clement</u>, and S.M. Swensen. 2006. Phylogenetic relationships of Asian *Begonia*, with an emphasis on the evolution of rainballist and animal dispersal mechanisms in sections *Platycentrum*, *Sphenanthera*, and *Leprosae*. *Systematic Botany*. 31(2):327-336.
- Zerega, N.J.C., <u>W.L. Clement</u>, S.L. Datwyler, and G.D. Weiblen. 2005. Biogeography and divergence times in the mulberry family (Moraceae). *Molecular Phylogeny and Evolution*. 37:402-416.
- <u>Clement, W.L.</u>, M.C. Tebbitt, L. Lowe-Forrest, J.E. Blair, L. Brouillet, T. Eriksson, and S.M. Swensen. 2004. Phylogenetic position and biogeography of *Hillebrandia sandwicensis* (Begoniaceae): A rare Hawaiian relict. *American Journal of Botany*. 91(6): 05-917.

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## TEACHING EXPERIENCE AND TRAINING

## Experience

Assistant professor, Department of Biology, The College of New Jersey, Ewing, NJ *Themes in Biology w/laboratory* (Fall 2012), *Ecology and Evolution of Plant-Insect Interactions* (Spring 2013)

Lecturer, Department of Ecology and Evolutionary Biology, Yale University, New Haven, CT *Ecology and Evolution of Plant-Insect Interactions* (Fall 2011), *Plant Evolution and Diversity* (Spring 2011 & 2012), *Plant Evolution and Diversity Laboratory* (Spring 2011 & 2012), *Diversity of Life* (Fall 2010 & 2011)

Teaching Assistant, Department of Plant Biology, University of Minnesota, St. Paul, MN *Flowering Plant Diversity* (Spring 2006, Spring 2008), *General Botany* (Spring 2005) Teaching Assistant, General Biology Department, University of Minnesota, Minneapolis, MN *General Biology* (Fall 2002, Spring 2003)

# **Training**

NSF Faculty Institutes for Reforming Science Teaching (First IV) Postdoctoral Fellow. Two, one week workshops focused on the use of inquiry-based learning techniques and course development using inquiry-based learning in addition to mentoring during the academic year (May 2011-May 2012)

Learning to Mentor the Next Generation of Scientists, Yale University, New Haven, CT Five-week seminar series offered through the Graduate Teaching Center (Spring 2010) Preparing Future Faculty: Semester-long teaching preparation course at the University of Minnesota (Fall 2004)

## RESEARCH GRANTS AND FELLOWSHIPS

NSF Advancing Revisionary Taxonomy and Systematics (ARTS) panel (\$457,000) (2012) A cyber-enabled global monograph of *Viburnum* (Adoxaceae, Dipsacales) (Co-PI) International Network Grant, Ministry of Science, Innovation and Education, Denmark. (\$56,500) (2012) An evolutionary approach to understanding extreme diversification in higher plant lineages (Co-PI)

Council for Africa - The Field Museum of Natural History (\$5500) (2008) [pollination ecology of *Mesogyne* (Moraceae)]

Bell Museum of Natural History Simons Fellowship in Systematic Biology (\$16,000; 2007-08) Society for the Study of Evolution Travel Grant (\$750)

(2007) [travel to Evolution 2007 international meeting in New Zealand]

University of Minnesota Doctoral Dissertation Fellowship (\$21,000; 2006-07)

University of Minnesota Travel Grant (\$700)

(2007) [travel to Botany 2007 meeting in Chicago, IL]

National Science Foundation Doctoral Dissertation Improvement Grant (\$11,743)

(2006) [systematics and pollination biology of Castilleae (Moraceae)]

University of Minnesota Doctoral Dissertation International Research Grant (\$5,000) (2005) [support field work in Papua New Guinea]

American Society for Plant Taxonomists Graduate Student Research Grant (\$1,000) (2005) [systematics and evolution of Castilleae (Moraceae)]

Grants in Aid of Research, Sigma Xi (\$550)

(2005) [systematics and evolution of Castilleae (Moraceae)]

Exploration Fund, Explorer's Club (\$1,200)

(2005) [support field work in the Neotropics]

Dayton and Wilkie Natural History Funds, Bell Museum, University of Minnesota (\$1,100) (2005) [support field work in the Neotropics]

Award in Tropical Botany, Garden Club of America (\$5,500)

(2005) [support field work in Ecuador]

University of Minnesota, Travel Grant, Plant Biology Department (\$500)

(2003, 4/2004, 10/2004) [travel to Costa Rica; travel to Evolution 2004, Ft. Collins,

Colorado, travel to Missouri Botanical Garden Herbarium]

Tri-Beta Research Foundation Scholarship (\$700)

(2000) [systematics and evolution of Begoniaceae]

## HONORS AND AWARDS

Hamm Memorial Graduate Student Scholarship, University of Minnesota (2007)

Plant Biological Sciences Summer Fellowship (2007)

Carol A. and Wayne A. Pletcher Graduate Fellowship, University of Minnesota (2004)

National Science Foundation, Graduate Research Fellowship; Honorable Mention (2003, 2004)

USA Today All-College Academic Team; Third Team (2002)

Barry M. Goldwater Scholar Award (2001)

#### FIELD EXPERIENCE

### *Field experience:*

Colombia, Costa Rica, Ecuador, Hawaii, Malaysian Borneo, Papua New Guinea, Peninsular Malaysia, Singapore, Tanzania, Vietnam

### Field courses:

Tropical Ecology; Center for Tropical Forest Science (CTFS), Malaysian Borneo, July 2004 Tropical Ecology; Organization for Tropical Studies (OTS), Costa Rica, Summer 2003

## **INVITED PRESENTATIONS**

Using a phylogenetic framework to investigate the drivers of extant fig diversity & and the Evolution and Phylogeny of Viburnum (Adoxaceae)

Department of Botany, Natural History Museum of Denmark, Copenhagen, Dec. 11, 2012 Overview and update on the *Viburnum* phylogeny

Viburnum Summit 2012, Yale University, Nov. 3, 2012

Unraveling the evolutionary origins and distributions of plant diversity

Biology Dept. Seminar Series, Rhode Island College, Providence, RI; Feb. 9, 2012

**Origins of Tropical Rainforests** 

Biology Dept. Seminar Series, Albertus Magnus College, New Haven, CT; Dec. 3, 2010

Phylogeny, Biogeography and Pollination Ecology of Castilleae (Moraceae)

Organismic and Evolutionary Biology, Harvard University, Cambridge, MA March 23, 2010

Phylogeny and Pollination Ecology of the figs' closest relatives, Castilleae (Moraceae)

Biology Dept. Seminar Series, Ithaca College, Ithaca, NY, March 19, 2009

Pollination ecology of figs and their closest relatives in Papua New Guinea and Tanzania New Explorations, New Species, and New Systematic and Conservation Research Symposium, ECOSAVE Center, Yale University; April 24, 2009

Phylogeny of Castilleae (Moraceae): Investigating the evolutionary history of the figs' closest relatives

XVII International Botanical Congress, Vienna, Austria; July 17-23, 2005

#### CONTRIBUTED PRESENTATIONS AT PROFESSIONAL MEETINGS

(18 total, most recent presentations listed)

Using a phylogenetic framework to investigate the drivers of extant fig diversity: a comparison of figs and their closest relatives Castilleae (Moraceae).

Wendy L. Clement, George D. Weiblen, Nina Rønsted. Association for Tropical Biology and Conservation, Bonito, Brazil: June 18-22, 2012

Dissolution of *Viburnum* section *Megalotinus* clarifies morphological evolution and the importance of Southeast Asia in the diversification of *Viburnum* 

Wendy L. Clement and Michael J. Donoghue; Evolution 2010, Portland, OR; June 25-29, 2010

Barcoding the woody angiosperm clade, Viburnum

Wendy L. Clement and Michael J. Donoghue; Third International Barcode of Life Conference, Mexico City; November 7-13, 2009

Price check aisle 3: Can DNA barcoding differentiate closely related Viburnum?

Wendy L. Clement, Kellie L. Heckman, Michael J. Donoghue; Evolution 2009, Moscow, ID; June 12-16, 2009

Phylogeny of Castilleae (Moraceae): Investigating the evolutionary history of the figs' closest relatives.

Wendy L. Clement; Evolution 2008, Minneapolis, MN; July 19-24, 2008

Classification and character evolution of the mulberry family (Moraceae) based on morphology and molecules

Wendy L. Clement; Botany 2007, Chicago, IL; July 7-11, 2007

From Africa to New Guinea: Geographic structure of the poison tree, *Antiaris toxicaria*, based on ITS sequence data

Wendy L. Clement and George D. Weiblen; Evolution 2007, Christchurch, New Zealand; June 16-20, 2007; Chicago Botanic Garden Student Symposium, Chicago, IL, July 5, 2007

A fig by any other name would smell just as sweet: A study of phylogeny and floral volatile mimicry in figs and close relatives

Wendy L. Clement and George D. Weiblen; Evolution 2006, Stony Brook, NY; June 23-27, 2006

#### PROFESSIONAL DEVELOPMENT

Beginning a Research Program Institute, Council on Undergraduate Research (CUR), Nov. 16-18, 2012, Mobile, AL.

Three day conference focused on starting and maintaining a research program to successfully involve undergraduates at primarily undergraduate institutions.

Women evolving the biological sciences (WEBS). October 24-27, 2010, Seattle, WA Annual three-day conference aimed at addressing issues concerning women in science.

Responsible conduct of research for postdocs. Spring 2010. An 8-week course at Yale University that meets requirements set by the National Institutes of Health (NIH) and National Science Foundation (NSF) for ethics training.

## PROFESSIONAL AFFILIATIONS AND SERVICE

Affiliations: Society for Systematic Biologists (SSB), American Society of Plant Taxonomists (ASPT), Society for the Study of Evolution (SSE), Sigma Xi

Manuscript Referee: American Journal of Botany, Evolution, Molecular Ecology Resources, Plant Biology, Symbiosis, Systematic Botany

Service: Co-organizer of the *Viburnum* Summit 2012 hosted at Yale University, Nov. 16, 2012. I was responsible for inviting speakers and attendees, and organizing workshop logistics such as organization of day's activities and travel arrangements for participants.

## **O**UTREACH AND PUBLIC SERVICE

## Public presentations

- "Sak sak and Sing Sing: Fieldwork in Papua New Guinea"
- Adventure Science Series, Bell Museum of Natural History, February 24, 2008
- "A tour of our globe's tropical rainforests"

Resource for Curriculum Resources & Programs, a group designed to enrich K-12 classroom experiences with community resources. Spring 2007, Spring 2008

### Service

2009 Bioblitz Botany Participant: August 1<sup>st</sup>, 2009, collected and identified plants in Roosevelt Forest, Stratford, CT; in conjunction with Yale's Peabody Museum of Natural History Guide for University of Minnesota Bell Museum Herbarium tours. Spring 2007 - present. 2007 BioBlitz Botany Coordinator: June 8<sup>th</sup> and 9<sup>th</sup>, 2007 at the Warner Nature Center, Washington County, Minnesota; in conjunction with the Bell Museum of Natural History Presenter for the "Women's Careers in Science" Day at the Bell Museum of Natural History, University of Minnesota, February 26, 2005

Research and Design Assistant for exhibit development for Biodiversity Crisis 911: Saving Life on Earth, Bell Museum of Natural History, University of Minnesota, Sept. 2003 – May 2004

Curriculum Committee Member, University of Minnesota Plant Biology Graduate Program. Fall 2002-Spring 2003.

### **COLLABORATORS AND OTHER AFFILIATIONS**

A. Agrawal (Cornell University), M. Arakaki (Brown University), J. Beaulieu (Yale University), D. Chatelet (Brown University), N. Cordeiro (Field Museum of Natural History and Roosevelt University), E. Edwards (Brown University), E. Lo (University of California, Irvine), A. Moe (Syracuse University), H. Ndangalasi (University of Dar es Salaam), N. Rønsted (University of Copenhagen), P.W. Sweeney (Yale University), M.G. Weber (Cornell University), T. Whitfeld (University of Minnesota), N.J.C. Zerega (Northwestern University and The Chicago Botanic Garden).