

**MIKE MARTIN**  
*CURRICULUM VITAE*

J.H.U. Department of Geography and Environmental Engineering  
313 Ames Hall  
3400 North Charles Street  
Baltimore, Maryland, USA 21218

E-mail: [sameoldmike@gmail.com](mailto:sameoldmike@gmail.com)  
Phone: (617) 872-5710  
Fax: (410) 516-8996  
[www.jhu.edu/epe/martin/](http://www.jhu.edu/epe/martin/)

**RESEARCH INTERESTS**

Population genetics, phylogeography, molecular phylogenetics, ancient DNA

**EDUCATION**

Ph.D., "Evolutionary mechanisms of *Ambrosia artemisiifolia* invasion," (Expected May 2011)  
Johns Hopkins University, Baltimore, Maryland

M.S., Environmental Engineering (Environmental Science), May 2008  
Johns Hopkins University, Baltimore, Maryland

B.S., Electrical Engineering, May 2005  
Boston University, Boston, Massachusetts

**TEACHING EXPERIENCE**

Ecology Graduate Teaching Assistant (Fall 2010)  
Department of Geography and Environmental Engineering, J.H.U., Baltimore, Maryland

Plant Geography and Ecology Graduate Teaching Assistant (Spring 2010)  
Department of Geography and Environmental Engineering, J.H.U., Baltimore, Maryland

Molecular Botany Intern Supervisor (Fall 2009 – Present)  
Laboratories of Analytical Biology, National Museum of Natural History, Washington, D.C.

Mentor Scientist (Fall 2009 – Present)  
PlantingScience Program

Biochemistry Graduate Teaching Assistant (Fall 2007)  
Department of Biology, J.H.U., Baltimore, Maryland

**TECHNICAL SKILLS**

**Programming languages**

MATLAB, Visual Basic, R, C++/JavaScript, ActionScript

**Software packages**

PAUP\*, MrBayes, GARLI, Arlequin, GeneTree, Geneious, FSTAT, Network, ArcGIS

**Laboratory methods**

Low-copy DNA extraction, amplification, visualization, isolation, and Sanger sequencing  
Sediment core collection  
Pollen isolation and identification

## JOURNAL PUBLICATIONS

- MD Martin, M Chamecki, GS Brush. 2010. Anthesis synchronization and floral morphology determine diurnal patterns of ragweed pollen dispersal. *Agricultural and Forest Meteorology* **150**: 1307–1317.
- MD Martin, M Chamecki, GS Brush, C Meneveau, MB Parlange. 2009. Pollen clumping and wind dispersal in an invasive angiosperm. *American Journal of Botany* **96**: 1703–1711.

## MANUSCRIPTS IN PREPARATION

- MD Martin, GS Brush, EA Zimmer. “Phylochronology of invasive common ragweed (*Ambrosia artemisiifolia*) in its native range.”
- MD Martin, E Quiroz-Claros, GS Brush, EA Zimmer. “Biogeography of the North American Ragweeds (*Ambrosia*; Compositae).”
- MD Martin, GS Brush. “Range expansion of common ragweed from North American paleopalynological records.”

## CONFERENCE PRESENTATIONS

- MD Martin, GS Brush, EA Zimmer. 2010. “Temporal phylogeography in the native range of invasive common ragweed (*Ambrosia artemisiifolia*).” *Ecological Society of America Annual Meeting*. 5 August. Pittsburgh, Pennsylvania.
- MD Martin, GS Brush, EA Zimmer. 2010. “Temporal changes in genetic structure of common ragweed (*Ambrosia artemisiifolia*) in its native range.” *Botany 2010*. 3 August. Providence, Rhode Island.
- MD Martin, M Chamecki, G Brush. 2009. “Influence of synchronization and floral morphology on ragweed pollen dispersal.” *Baltimore Ecosystem Study (LTER) Annual Meeting*. 21 October. Baltimore, Maryland.
- MD Martin, M Chamecki, G Brush, C Meneveau, M Parlange. 2008. “Wind dispersal and clumping of ragweed pollen.” *First International Ragweed Conference*. 11 September. Budapest, Hungary.
- MD Martin, GS Brush, M Chamecki, MB Parlange, C Meneveau. 2007. “Plant-atmosphere exchange: field studies of the dispersion of pollen in the lower atmosphere.” *European Geosciences Union General Assembly 2007*. 20 April. Vienna, Austria.

## INVITED LECTURES

- MD Martin, EA Zimmer, GS Brush. 2010. “Phylogeography and population genetics of common ragweed.” *Smithsonian Institution Department of Botany*. 9 March. Washington, D.C.
- MD Martin, M Chamecki, GS Brush, C Meneveau, MB Parlange. 2008. “Field studies of ragweed pollen dispersal.” *Clinical Immunology Lecture Series*, Johns Hopkins Division of Allergy and Clinical Immunology. 29 February. Baltimore, Maryland.

## AWARDS

- Grant-In-Aid of Research, Sigma Xi (2010)
- Research Studentship, Smithsonian Institution National Museum of Natural History (2009 – Present)
- Graduate Research Assistantship, Johns Hopkins University (2006 – Present)

## PROFESSIONAL AFFILIATIONS

- Ecological Society of America (ESA)
- Botanical Society of America (BSA)
- Sigma Xi, The Scientific Research Society

## OTHER INTERESTS

- Eco-fuels, camping, outdoor and winter sports, amateur astronomy