

**CURRICULUM VITAE**  
**SARAH R. CARRINO-KYKER**

**EDUCATION**

**Case Western Reserve University**, Cleveland, OH, 2003-present

M.S. in Biology, May 2006

Thesis: *Eukaryotic and Cyanobacterial Diversity and Physicochemical Characterization of Northeastern Ohio Vernal Pools.*

Advisor: Dr. Andrew K. Swanson

**Miami University**, Oxford, OH, 1999-2003

B.A. in Botany, *Cum Laude*, May, 2003

B.S. in Secondary Education, *Cum Laude*, May, 2003

**RESEARCH EXPERIENCE**

**Summer 2003**

**Case Western Reserve University**

Cleveland, OH

Laboratory Assistant

Department of Biology, laboratory of Dr. Arnold I. Caplan

**Summer 2002**

**Miami University**

Oxford, OH

Howard Hughes Undergraduate Research Intern

Undergraduate Summer Scholars Program

Department of Botany, laboratory of Dr. Nancy L. Smith-Huerta

**Summer 2001**

**Case Western Reserve University**

Cleveland, OH

Summer Program of Undergraduate Research

Department of Biology, laboratory of Dr. Arnold I. Caplan

**School Year**

**2000-2002**

**Miami University**

Oxford, OH

Undergraduate Researcher

Department of Botany, laboratory of Dr. Nancy L. Smith-Huerta

## **TEACHING EXPERIENCE**

Case Western Reserve University, Cleveland OH, Department of Biology

"Genes and Evolution" laboratory instructor  
Spring 2007, Spring 2006, Spring 2004

"Biotechnology" teaching assistant  
Fall 2006, Fall 2005

"Genes and Evolution" laboratory co-coordinator  
Spring 2005

"Evolution" teaching assistant  
Fall 2004, Fall 2003

## **HONORS/AWARDS**

Case Western Reserve University; Endowment Sponsored Mentorship Program Travel Award, 2007

Botanical Society of America; Mycological Section Student Travel Award, 2007

Botanical Society of America; America Student Profile participant, 2007, website:

[http://www.botany.org/students\\_corner/profiles/sarah\\_kyker/](http://www.botany.org/students_corner/profiles/sarah_kyker/)

Case Western Reserve University, Phi Beta Kappa Grant for Student Research, 2004

Case Western Reserve University, Verhosek Fund for conference presentations, 2004

Botanical Society of America; Young Botanist Award for Special Achievement, 2003

Miami University; Marcia E. Buck-Roll Memorial Scholarship, 2002

Miami University; Undergraduate Research Grant, 2002

Miami University; National Society of Collegiate Scholars member, 2001-2003

## **DEPARTMENT INVOLVEMENT**

Case Western Reserve University, Department of Biology,  
Departmental Seminar Committee, 2006-present

Case Western Reserve University, Department of Biology,  
Graduate Student Seminar Coordinator, 2005-present

Case Western Reserve University, Department of Biology,  
Graduate Student Social Hour Coordinator, 2006-2007; Co-coordinator, 2005-2006

## **PROFESSIONAL ORGANIZATIONS**

Northeast Algal Society

Botanical Society of America

## **PRESENTATIONS**

Carrino-Kyker S.R. and Swanson A.K. "Little Wetlands in the Big City: Microbial Diversity of Vernal Pools in and around Cleveland, Ohio." Botany 2007, Chicago IL. July 11, 2007

Carrino-Kyker S.R. and Swanson A.K. "Little Wetlands in the Big City: Microbial Diversity of Vernal Pools in and around Cleveland, Ohio." Midwest Ecology and Evolution Conference, Kent State University, Kent, OH. March 11, 2007.

Carrino S.R. and Swanson A.K. "Little wetlands in the big city: Microbial molecular biodiversity among and within urban and non-urban GIS-characterized vernal pools of Northeastern Ohio." Northeast Algal Society, Rockport, ME. April 16, 2005.

Carrino S.R. and Swanson A.K. "The utility of molecular genomics in assessing microorganismal ephemeral communities." Midwest Ecology and Evolution Conference, University of Notre Dame, South Bend, IN. March 6, 2004.

## **POSTERS**

Cullis C.A., Ahmed S., Assar A., Babar A., Bentley D., Brady M., Butz L., Cantor A., Coutryman E., Imam K., Lavik A., Matires K., Michelson A., Molnar A., Neyman A., Nichols L., Patel M., Ponomareva O., Rich N., Schreiner A., Stofko E., Vijayvargiya N., Yang S., Yu Y., Carrino S.R. "Developing DNA markers for underserved crops important for the developing world." Research ShowCASE, Case Western Reserve University, Cleveland OH. April 12, 2007.

Cullis C.A., Aultman A., Bair E., Brandt E., Chang C., Chang J., Chen J., Cook D., Davis S., Hengenius J., Hua J., Kinsey R., Kramp D., Lake M., Lavik J.P., Mao M., Mehta P., Patel K., Predina J., Singh R., Moss T., Townsley E., Ueda M., Voss K., Warsch S., Wentzel S., Yan F., Wilson M., Zhao Y., Sutak V., Carrino S.R. "Developing DNA markers for underserved crops important for the developing world." Research ShowCASE, Case Western Reserve University, Cleveland OH. April 6, 2006.

Carrino S.R. and Smith-Huerta N.L. "Effects of nutrient supplementation on components of reproduction in the wildflower *Clarkia unguiculata* (Onagraceae)" Botany 2002, University of Wisconsin, Madison, WI. August 3, 2002.

## **PUBLICATIONS**

Carrino-Kyker, S.R. and A.K. Swanson. *In review* “Temporal and spatial patterns of eukaryotic and bacterial communities found in Ohio vernal pools as determined by denaturing gradient gel electrophoresis.” *Applied and Environmental Microbiology*.

Smith-Huerta, N.L., S.R. Carrino-Kyker, and A.J. Huerta. *In review* “The effects of maternal and paternal nutrient status on pollen performance in the wildflower *Clarkia unguiculata* Lindley (Onagraceae).” *Journal of the Torrey Botanical Club*.

Carrino-Kyker S.R. and Swanson A.K. “Seasonal physicochemical characteristics of thirty Northern Ohio temporary pools along gradients of GIS-delineated human land-use.” *Wetlands* 27: 749-760.