Curriculum Vitae for
Jordan R. Rofkar

Address: University of Toledo
Department of Environmental Sciences
2801 West Bancroft Street
Toledo, OH 43606-3390
Tel: (419) 530-8380
e-mail: jordan.rofkar@utoledo.edu

Curriculum: B.A. (2002) Ecology and Evolutionary Biology
M.S. (2005) Biology (Ecology)

Employment:

2003 Graduate Research Assistant
Dept. of Earth, Ecological, and Environmental Sciences
The University of Toledo, Toledo, OH

2004 Graduate Teaching Assistant
Dept. of Earth, Ecological, and Environmental Sciences
The University of Toledo, Toledo, OH

2005 – Present Graduate Research Assistant
Dept. of Earth, Ecological, and Environmental Sciences
The University of Toledo, Toledo, OH

Education:

2002 Bachelor of Arts (The University of Arizona)
Major: Ecology and Evolutionary Biology
Minor: German Studies
Activities:
- African grey parrot cognition with Prof. Irene Pepperberg
- Laboratory assitant for Paul E. Nolan, Pharm.D.

2005 Master of Science (The University of Toledo)
Advisor: Daryl F. Dwyer, Ph.D.
Thesis: Arsenic Accumulation by Plant Species Selected for Growth in Northwest Ohio

2005 - Present Doctoral Student (The University of Toledo)
Advisor: Daryl F. Dwyer, Ph.D.
Proposed Thesis: Development of a Passive, Phytoremediation-Based System for Treatment of Arsenic-Contaminated Water: Identifying Plant Species for Use in Northwest Ohio.

Training Obtained:

OSHA 40-hour HAZWOPER

Laboratory Instrumentation and Techniques:

Microwave digestion of plant and soil samples for analysis by ICP-AES
Analysis of data from ICP-AES
Preparation of samples for analysis by GC-MS
Set-up and maintenance of hydroponics systems for plant growth
Design and use of soil lysimeters
Design and use of wetland mesocosms

Professional Affiliations:

American Chemical Society – since 2004
American Association for the Advancement of Science – 2006 - 2008
The Ohio Academy of Science – since 2007

Courses Taught:

Teaching Assistant – EEES 2150 – Biodiversity (Fall 2004 with Daryl F. Dwyer, Ph.D.)

Teaching Assistant – EEES 4980/6980 – Phytoremediation: An Investigative Field Approach to Developing a New Technology (Summer 2007 with Daryl F. Dwyer, Ph.D.)

Committees Served:

Search for Plant Science Research Center Greenhouse Manager – September 2007

Publications:

Rofkar JR, Frantz JF, and Dwyer DF. (2007) Analysis of arsenic uptake by plant species selected for growth in northwest Ohio by inductively coupled plasma-optical emission spectroscopy. *Communications in Soil Science and Plant Analysis*. 38: 2505 – 2517.

Rofkar JR. Arsenic Accumulation by Plant Species Selected for Growth in Northwest Ohio. Master's Thesis. December, 2005. The University of Toledo.

Presentations:

Poster:

Barnswell KD, Rofkar JR, and Dwyer DF (2004). Phytoremediation at the King Road Landfill: Current Progress and Future Work. Sigma Xi Student Research Symposium. The University of Toledo. Toledo, OH.

Rofkar JR and Dwyer DF. (2008). Screening plant species for phytoremediation of arsenic in northwest Ohio. Annual Meeting of the Ohio Academy of Science. The University of Toledo. Toledo, OH.

Rofkar JR and Dwyer DF. (2008). Rates of uptake by plant species selected for phytoextraction of arsenic in northwest Ohio. Battelle Conference on Remediation of Chlorinated and Recalcitrant Compounds. Monterey, CA.

Rofkar JR and Dwyer DF. (2008). Uptake kinetics of arsenic in a wetland grass native to northwest Ohio (*Spartina pectinata*). Sigma Xi Student Research Symposium. The University of Toledo. Toledo, OH.

Duncan AM, Gorr MW, Rofkar JR, Barnswell KD, Gottgens JF, and Dwyer DF. (2009). Plant-mediated reductions of arsenic levels in flow-through wetland microcosms. IAGLR Annual Conference on Great Lakes Research. The University of Toledo. Toledo, OH. (*accepted*)

Rofkar JR, Duncan AM, Barnswell KD, Armenio P, Frantz JF, and Heckathorn SA. (2009). Effects of nitrogen on boron toxicity in *Azolla caroliniana*. IAGLR Annual Conference on Great Lakes Research. The University of Toledo. Toledo, OH. (*accepted*)

Platform:

Rofkar JR, Hickey J, Dwyer DF. (2006). Screening Plant Species for Uptake of Arsenic in Northwest Ohio. 2nd International Conference on Environmental Science and Technology. American Academy of Sciences. Houston, TX.

Hickey J, Rofkar JR, Dwyer DF. (2006). Uptake of Metals by Selected Plant Species in Northwest Ohio. Sigma Xi Student Research Symposium. The University of Toledo. Toledo, OH

Rofkar JR and Dwyer DF. (2009). Kinetics of arsenic uptake by plant species

selected for phytoextraction in northwest Ohio. Battelle International Symposium on In Situ and On-Site Bioremediation. Baltimore, MD. (*accepted*)