# Margaret Avener

#### **Contact Information**

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## Education

University of Washington, Seattle, WA 2007-present

M.S. candidate in Civil and Environmental Engineering

2003-2007 Massachusetts Institute of Technology, Cambridge, MA

B.S. in Environmental Engineering Science

## **Employment History**

| 2007-present | Environmental Fluid Mechanics Group, $\cup W$  |
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|              | Research assistant. Assisted with field research on the Merrimack River  |
|              | plume. Designed and carried out laboratory experiments simulating the effects of variable discharge on buoyant coastal plumes. |
| 2007-2008    | Department of Civil and Environmental Engineering, UW  Too skippy aggistent for CEE 210: Elvid Mask griss, Daysland John       |

Teaching assistant for CEE 342: Fluid Mechanics. Developed labs, led lab sections and problem-solving workshops for undergraduate students.

2007 Department of Electrical Engineering and Computer Science, MIT Laboratory assistant for Introduction to EECS I. Supervised small groups of undergraduates in software and hardware robotics labs.

2007 Department of Electrical Engineering and Computer Science, MIT

Teaching assistant for Mobile Autonomous Systems Laboratory. Worked with undergraduate students to debug autonomous robots in a labora-

tory setting.

2006 Prometheus Radio Project, Philadelphia, PA

Intern focusing on technical work. Designed, debugged, and docu-

mented equipment for low power radio stations.

2006 Nepf Lab, MIT

> Undergraduate researcher in fluid mechanics. Modeled flow in constructed wetlands through tracer experiments in a model basin. Per-

formed field experiments with tracers in a constructed wetland.

2005 Stocker Lab, MIT

Undergraduate researcher in fluid mechanics. Developed laboratory experiments to examine spontaneous oscillations of a sessile lens.

2004 Center for Reflective Community Practice, MIT

Undergraduate researcher in community organizing and radio technology. Worked with Boston's  $Asian\ Community\ Development\ Coorporation and the control of the control of$ 

tion to design and build a community radio station.

#### **Publications**

Lightbody, A. F., M. E. Avener, and H. M. Nepf. 2008. Observations of short-circuiting flow paths within a free-surface wetland in Augusta, Georgia, U.S.A. *Limnology and Oceanography* 53: 1040-1053.

#### **Conference Presentations**

Avener, M.E., A.R. Horner-Devine, and P. B. Rhines. 2008. Laboratory Experiments Simulating the Effects of Variable Discharge on Buoyant Coastal Plumes. *American Geophysical Union, Fall Meeting*, San Francisco, CA.