

David Michael Wogan

Austin, Texas 512.300.7298 david.wogan@me.com

Education

The University of Texas at Austin

Masters of Science, Mechanical Engineering

December 2010 (Expected)

Masters of Public Affairs

December 2010 (Expected)

GPA: 3.70

Bachelors of Science, Mechanical Engineering

December 2006

Fellowships and Awards

Archer Graduate Fellowship Program

Summer Graduate Fellow

Awarded Spring 2010

Work & Research

The University of Texas at Austin

Graduate Research Assistant

Spring 2008 to present

Advisors: Dr. Michael Webber and Dr. Alexandre K. da Silva

Thesis Topic: Assessing the Potential for Biofuels from Algae in Texas

- Estimating algal biofuel production by integrating biology, engineering, geosciences, and policy-making principles into a singular analysis
- Determining geographic and temporal limitations of algal biofuel production
- Mentoring an undergraduate research assistant with resource map creation, research skills, and policy analysis

White House Council on Environmental Quality

Intern, Energy & Climate Change Team

Summer 2010

- Evaluated, analyzed, and contributed to a variety of energy and environmental policy initiatives
- Contributed to the Interagency Adaptation Task Force's report to the President
- Coordinated research on Administration's smart grid policy between various federal agencies and Executive level offices

The University of Texas at Austin

Teaching Assistant: Energy, Technology, & Policy

Spring 2009, 2010

- Created and graded blogging and podcasting assignments, quiz, and exam questions
- Provided assistance for students in podcast creation, research paper writing, and understanding course material
- Lectured on algal biofuels biology, technology, and policy

Fulbright 1st US-Brazil Biofuels Short Course

Representative, UT Austin

Location: São Paulo, Brazil

August 2009

- Participated in intensive two week short course on Brazilian and U.S. biofuel production processes and policy issues
- Toured Brazilian sugarcane plantations, ethanol research facilities, and refineries

National Instruments

Intern, Academic Marketing

Spring to Summer 2007

- Performed internal testing of LabVIEW m-script programming environment
- Provided critical feedback to members of LabVIEW R&D group
- Furthered development of LabVIEW-based textbooks and curriculum
- Managed Applications Engineers for NI Week technical demonstration

Publications & Presentations

Wogan, D.M., Webber, M.E., da Silva, A.K. "A Resource-limited Approach to Estimating Algal Biomass Production with Geographical Fidelity." *ASME Energy & Sustainability Conference 2010*. Phoenix, AZ. In Review. ES2010-90154 (Peer-reviewed Paper & Presentation)

Wogan, D.M., Webber, M.E., da Silva, A.K. "An Improved Methodology for Reporting Solar Radiation Data." *Journal of Renewable and Sustainable Energy*. In Review. (Peer-reviewed Paper)

Wogan, D.M. "Lessons from the 1st US-Brazil Biofuels Short Course." *Brazil Week 2009*. Austin, TX. August 2009 (Panelist)

Wogan, D.M., da Silva, A.K., Webber, M.E. "Assessing the Potential for Algae-based Biofuels in Texas." *ASME Energy & Sustainability Conference 2009*. San Francisco, CA. July 2009 ES2009-90235 (Peer-reviewed Paper & Presentation)

Wogan, D.M., Webber, M.E., da Silva, A.K. "Algae: Pond-Powered Biofuels." *CleanTX Forum*. Austin, TX. 19 November 2008. (White Paper)

Volunteering & Outreach

American Association for the Advancement of Science (AAAS) Conference 2010

Student Session Aide

February 2010

- Acted as liason between session organizers and speakers in plenary sessions and symposiums

Central Texas First Lego League (FLL)

Head Judge

Fall 2008, 2009

- Coordinated judging assignments and competition guidelines
- Presided over judging deliberations
- Announced Championship winners and other awards

Student Engineers Educating Kids (SEEK)

Fall 2008

Mentor

- Met weekly with Austin-area middle school students
- Performed science projects and taught basic engineering and scientific principles
- Provided a positive influence in underprivileged students

Organizations & Memberships

Graduate Public Affairs Council (GPAC)

Subcommittee Chair 2009

Mechanical Engineering Graduate Student Board

Secretary 2009 to present

American Society of Mechanical Engineers

Member 2001 to present