

LYNETTE CHEAH

77 Mass. Ave, Rm. E38-420, Cambridge, MA 02139 ▪ Phone: +1 (617) 253-6467 ▪ E-mail: lynette@mit.edu

Education

Massachusetts Institute of Technology (MIT) Cambridge, Massachusetts
Ph.D. in Engineering Systems September 2010
Dissertation topic: Life-cycle material and energy impacts of vehicle weight reduction

Stanford University Stanford, California
M.S. in Management Science & Engineering June 2002

Northwestern University Evanston, Illinois
B.S. in Environmental Engineering (with Honors) and B.Sc. in Civil Engineering June 2001

Experience

Postdoctoral Research Associate Cambridge, Massachusetts
Materials Systems Laboratory, MIT September 2010-present
Leading distinct projects assessing the environmental impact of electric vehicle systems, and the carbon footprint of running shoes. Developing expertise in life-cycle energy and environmental assessment (LCA), and material flow analysis.

Research Assistant Cambridge, Massachusetts
Sloan Automotive Laboratory, MIT 2005-2010
Evaluated the energy and environmental impacts of future, fuel-efficient vehicle technologies, as a member of the "Before a Transition to Hydrogen Transportation" team. Developed expertise in vehicle lightweighting, vehicle fleet modeling, and transportation policy.

Research Council Officer Singapore
National Agency for Science, Technology and Research 2002-2005
Managed the environmental science and engineering portfolio for research grant allocations. Conducted a scan of energy and environmental technologies, industry needs and local competencies to determine national research priorities.

Leadership

Executive Committee member, MIT Energy Club 2007-2008
Organized and led tours of energy companies and facilities in the greater Boston area for this 2,200-member Club.

Executive Committee member, MIT Engineering Systems Division Student Society 2006-2007
Convened and moderated forums that allowed students to share and discuss research ideas.

Project Leader, Students for a Sustainable Stanford 2001-2002
Led a Graduate Sustainability Pledge project, which had 300 classmates commit to bringing social and environmental improvements in the jobs that they take up. Coordinated an Earth Day Fair, and an environmental film festival on campus.

Select Fellowships & Awards

2010: 3rd prize for IEEE ISSST Student Paper Competition, MIT Graduate Woman of Excellence; 2008: SAE Award for Excellence in Oral Technical Presentation; 2006: Martin Family Society of Fellows for Sustainability, Prize winner for SWE National Collegiate Poster Competition and MIT Environmental Writing Contest; 2004: Singapore National Science Scholarship; 2001: American Society of Civil Engineers Student Award; 2000: Garden Club of America Award for Summer Environmental Field Studies

Skills

Languages: Fluent English, Intermediate Chinese (Mandarin)
Computer: Microsoft Office, basic HTML, SimaPro life cycle assessment software

Publications

3 first author (refereed), 2 co-authored (refereed), 1 book chapter, 2 co-authored research reports, 2 conference papers, 8 conference/seminar presentations.