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# Contact Information

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# Education

Ph.D., Mechanical Engineering, University of Connecticut, 2014

M.S., Mechanical Engineering, University of Connecticut, 2010

B.S.E., Aerospace Engineering, Case Western Reserve University, 2009

# Professional Experience

**Assistant Professor in Residence**, *University of Connecticut* 2016–Present

**Visiting Assistant Professor**, *University of Connecticut* 2014–2016

**Graduate Research Assistant**, *University of Connecticut* 2009–2014

**Undergraduate Research Assistant**, *Case Western Reserve University* 2007–2009

# Other Experience

**Developer**, *UConnRCMPy: Open-Source Data Analysis for Rapid Compression Machines* 2015–Present

**Contributing Developer**, *Cantera: Open-Source Thermodynamics, Chemistry, & Transport* 2014–Present

# Selected Journal Publications

E.E. Dames, A.S. Rosen, **B.W. Weber**, C.W. Gao, C.J. Sung, and W.H. Green. *A Detailed Combined Experimental and Theoretical Study on Dimethyl Ether/Propane Blended Oxidation.* Combustion and Flame, vol. 168, pp. 310–330, Jun. 2016

G. Kukkadapu, **B.W. Weber**, and C.J. Sung. *Autoignition study of tetralin in a rapid compression machine at elevated pressures and low-to-intermediate temperatures.* Fuel, vol. 159, pp. 436–445, Nov. 2015.

**B.W. Weber**, C.J. Sung, and M.W. Renfro. *On the Uncertainty of Temperature Estimation in a Rapid Compression Machine.* Combustion and Flame, vol. 162, no. 6, pp. 2518–2528, Jun. 2015.

**B.W. Weber**, W.J. Pitz, M. Mehl, A.C. Davis, E.J. Silke, and C.J. Sung. *Experiments and Modeling of the Autoignition of Methylcyclohexane at High Pressure.* Combustion and Flame, vol. 161, no. 8, pp. 1972–1983, Aug. 2014.

**B.W. Weber** and C.J. Sung. *Comparative Autoignition Trends in Butanol Isomers at Elevated Pressure.* Energy and Fuels, vol. 27, no. 3, pp. 1688–1698, Mar. 2013.

**B.W. Weber**, K. Kumar, Y. Zhang, and C.J. Sung. *Autoignition of n-butanol at elevated pressure and low-to-intermediate temperature.* Combustion and Flame, vol. 158, no. 5, pp. 809–819, Mar. 2011.

# Grants and Fellowships

“High Pressure Ignition Chemistry of Alternative Fuels.” $2,000  
University of Connecticut Doctoral Dissertation Fellowship 2014-01-21–2014-05-02

=12em =1 “Experiments and Detailed Modeling of Butanol Ignition.”  
Department of Mechanical Engineering Graduate Predoctoral Fellowship  
Funding: $2,000

=12em =1 “Assessing the Feasibility of Substituting Biofuels for Conventional Hydrocarbon Fuels.”  
University of Connecticut GAANN Fellowship in Sustainable Energy Technologies  
Funding: $7,599

Fred H. Vose Prize, Department of Mechanical and Aerospace Engineering 2009-05

“Investigation of Hydrocarbon Flame Structure Using Probe Sampling and GC/MS.” Summer Undergraduate Research in Energy Sciences Grant, Case Western Reserve University 2008-06-01–2008-08-31  
Funding: $3,500