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Professional Experience

- **2004-Present**. Predoctoral Researcher at Argonne National Laboratory (ANL)
- **2003-2004**. Graduate Researcher at the Institute of Transportation Studies in Davis, California
- **2002.** Summer Intern at Metal Technologies, Inc. in West Allis, Wisconsin
- **2001.** Summer Engineering Assistant at the Department of Public Works in Milwaukee, Wisconsin
- **2000**. Summer Intern at the Milwaukee Metropolitan Sewerage District in Milwaukee, Wisconsin
- **1999**. Intern at the Southeastern Wisconsin Regional Planning Commission in Waukesha, Wisconsin
- **1998-2002**. Computer Aide in the Civil Engineering Department at Northwestern University in Evanston, Illinois

Education

- M.S., Transportation Technology & Policy, University of California, Davis, 2004.
- B.S., Environmental Engineering, Northwestern University, 2002.

Research Interests

- Collecting vehicle weight, vehicle component weight distribution, and material composition of vehicle components for several types of light and heavy duty vehicles for use in the Greenhouse gases, Regulated Emissions and Energy use in Transportation (GREET) 2 model
- Updating the AirCred model that calculates the emission credits of alternative fueled vehicles as compared to a conventional models for use by fleet managers in Clean Cities

Publications

- Burnham, A., A. Burke, K. Collier, M. Forrest, Z. McCaffrey, and M. Miller. 2004. “Hydrogen Bus Technology Validation Program: Analysis and Update,” Proceedings, Annual Meeting of the National Hydrogen Association, Los Angeles, CA.

- Sellmeyer, S., C. Saricks, and A. Burnham. 2005. “AirCRED 4.0 Programmer’s Manual,” Argonne National Laboratory Report ANL-05/25.
- Saricks, C., A. Burnham, and S. Sellmeyer. 2005. “AirCRED 4.0 User’s Guide,” Argonne National Laboratory Report ANL-05/24.
- Moon, P., A. Burnham, and M. Wang. 2006. “Vehicle-Cycle Energy and Emission Effects of Conventional and Advanced Vehicles,” SAE Technical Paper No. 2006-01-0375.
- Burnham, A., M. Wang, and Y. Wu. 2006. “Development and Applications of GREET 2.7 – The Transportation Vehicle-Cycle Model,” Argonne National Laboratory Report ANL/ESD/06-5.
- Gaines, L., A. Burnham, A. Rousseau, D. Santini. 2007. “Sorting through the many total-energy-cycle pathways possible with early plug-in hybrids,” 23rd International Electric Vehicle Symposium, Anaheim, CA.