

# Yang Yang

## Education

- 09/03 – present **Western Michigan University** Kalamazoo, MI  
Doctorate course in progress Mechanical and Aeronautical Engineering
- 09/00 – 06/03 **Howard University** Washington, DC  
Master of Engineering Mechanical Engineering
- 09/95 – 06/99 **Southeast University** Nanjing, China  
Bachelor of Engineering Power Engineering

## Experience

09/03 – present **Research Assistant** CFD Laboratory, Western Michigan University, Kalamazoo, MI

- Numerically simulate the deformation of inter-woven carbon nanotube web by finite element method in combined with atomic potential functions.
- Wrote FORTRAN code to implement augmented Burnett equations to improve the stability of the code which was originally developed using conventional Burnett equations for the calculations of micro fluidic channel flow problems.

01/05 – present **Graduate Instructor** Fundamentals of Fluid Mechanics (AAE 371), Western Michigan University, Kalamazoo, MI

- Responsible for teaching an undergraduate class of 28 people.

07/04 – 12/04 **Teaching Assistant** Machine Design (ME 365), Western Michigan University, Kalamazoo, MI

- Led weekly problem sessions and guided students with their projects.

09/00 – 05/03 **Research Assistant** Howard University, Washington, DC

- Wrote FORTRAN code to simulate the hypersonic flow field around a blunt body and successfully fitted the bow shock wave.

## Skills

Familiar with FLUENT, GAMBIT, UNIX, LINUX, Parallel computing, Fortran, and C languages

**Conference and  
Publication**

Yang Yang, William W. Liou, "Comparison of Computational and Experimental Aerodynamics Results for a WMU Solar Car Model", SAE(Society of Automotive Engineers) 2005 World Congress, Detroit, MI