

Mechanical and Aerospace Engineering
146 Upson Hall
Cornell University
Ithaca, NY 14853

rjm75@cornell.edu
<http://eccentric.mae.cornell.edu/~randy>
607.255.3923

Randall J. McDermott

Curriculum Vitae

Professional Experience

- | | |
|-------------|-------------------------------------------------------------------------------------|
| Current | • Post-doctoral Research Associate, under Prof. Stephen B. Pope, Cornell University |
| 1994–1999 | • Burner design engineer, John Zink Co., Tulsa, OK |
| Summer 1993 | • Process engineer, Chevron, Bluit, NM |
| 1991–1992 | • Thermal design engineer, R&R Engineering, Tulsa, OK |

Education

- | | |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ph.D. | • Chemical Engineering, <i>3.98 gpa</i> . University of Utah, 2005
Advisor: Philip J. Smith
Topic: One-dimensional turbulence closure for large-eddy simulation |
| B.S. | • Chemical Engineering, <i>with Honors</i> . University of Tulsa, 1994 |

Teaching Experience

- | | |
|-------------------|---------------------------------------------------------------------------------|
| Fall 2005 | • Assistant Instructor, MAE 601 Graduate Fluid Mechanics, Prof. Stephen B. Pope |
| Spring 2003 | • LES lecture series for Mech. Eng. Turbulence course, Prof. Patrick McMurtry |
| Spring 2001, 2002 | • TA, Multi-component Mass Transfer, Prof. Philip J. Smith |
| Fall 2000 | • TA, Introduction to Combustion, Prof. Adel Sarofim |
| 1997–1999 | • Burner School director, John Zink Co., Tulsa, OK |

Academic Honors

- | | |
|-----------|---------------------------------------------------|
| 2001–2005 | • DOE Krell Computational Science Graduate Fellow |
| 2000–2001 | • John Zink Scholar, University of Utah |
| 1999 | • Wayne Brown Fellow, University of Utah |
| 1990–1994 | • John Zink Scholar, University of Tulsa |

Professional Affiliations

- American Physical Society
- Society of Industrial and Applied Mathematics
- Registered Professional Engineer, State of Oklahoma, 19145
- New York Academy of Sciences