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## Youssef M. Marzouk

ASSOCIATE PROFESSOR  
CLASS OF 1942 CAREER DEVELOPMENT PROFESSOR  
DIRECTOR, AEROSPACE COMPUTATIONAL DESIGN  
LABORATORY

### Contact

Department of Aeronautics and Astronautics  
Room 37-451  
Massachusetts Institute of Technology  
77 Massachusetts Avenue, Cambridge, MA 02139

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[ymarz@mit.edu](mailto:ymarz@mit.edu)

**Research group website:** <http://uqgroup.mit.edu>

### Academic Degrees

S.B., 1997, Massachusetts Institute of Technology S.M., 1999,  
Massachusetts Institute of Technology Ph.D., 2004, Massachusetts  
Institute of Technology

### Honors and Awards

MIT Junior Bose Award for Excellence in Teaching, 2012; AIAA  
Undergraduate Teaching Award, 2011; DOE Early Career Research  
Award, 2010-2015; Truman Fellow, Sandia National Laboratories,  
2004– 2007; Hertz Foundation Doctoral Thesis Prize, 2004; Joseph H.  
Keenan Prize, MIT Department of Mechanical Engineering, 2004; Hertz  
Fellow, 1997– 2002

### Society Memberships

American Institute of Aeronautics and Astronautics, Society for Industrial  
and Applied Mathematics, The Combustion Institute, American Physical  
Society, International Society for Bayesian Analysis

### Positions Held at MIT

Assistant Professor, 2009-2012; Associate Professor, 2012-present

### Positions Held outside MIT

Sandia National Laboratories, 2004– 2008

### Specialization and Research Interests

Computational science and engineering. Uncertainty quantification, data  
assimilation, statistical inference. Fluid dynamics and chemically  
reacting flow in energy conversion processes and in the environment.


### Teaching Interests

Computational mathematics, fluid dynamics, energy conversion,

uncertainty quantification, stochastic modeling

**Lab/Research Group Affiliation**

Aerospace Computational Design Lab

 Massachusetts Institute  
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