

## EDUCATION

- Ph.D. *Aerospace Engineering*, anticipated 2011. Texas A&M University, College Station, Texas  
Advisor · W. S. Saric
- M.S. *Aerospace Engineering*, 2007 Dec., Arizona State University, Tempe, Arizona.  
Thesis · *Experiments on mode competition in temporally-modulated Taylor-Couette flow*  
Advisors · W. S. Saric and J. M. Lopez
- B.S.E. *Aerospace Engineering*, 2005 Dec., Arizona State University, Tempe, Arizona. National Merit Scholar.  
Thesis · *Temporal behavior of modulated Taylor-Couette flow*  
Advisor · W. S. Saric

## RELEVANT EXPERIENCE

- 2007– *Research Assistant*, Flight Research Laboratory, Aerospace Engineering, Texas A&M University.  
Supervisor · W. S. Saric  
Performed research in support of Ph.D. dissertation.
- 2007 May–Aug. *Research Assistant*, Mathematics and Statistics, Arizona State University.  
Supervisor · J. M. Lopez  
Performed research in support of M.S. thesis.
- 2006–2007 *Teaching Assistant*, Mechanical and Aerospace Engineering, Arizona State University.  
Supervisor · K. D. Squires  
Administered laboratory experiments in senior-level mechanical engineering course.
- 2005 Oct.–Dec. *NSF Undergraduate Research Fellow*, Mathematics and Statistics, Arizona State University.  
Supervisor · J. M. Lopez  
Performed research in support of honors thesis.
- 2005 May–Aug. *Stagiaire*, von Kármán Institute, Rhode-Saint-Genèse, Belgium.  
Supervisor · H. Deconinck  
Computed results to verify wind-tunnel data in the transonic regime.
- 2003–2005 *Undergraduate Research Assistant*, Wind Tunnel Complex, Mech. and Aero. Engr., Arizona State Univ.  
Supervisor · W. S. Saric  
Assisted with wind tunnel experiments; created and maintained center website.

## PROFESSIONAL ACTIVITIES

- CHAIR American Institute of Aeronautics and Astronautics Student Branch, Arizona State University, 2004–2005
- MEMBER American Institute of Aeronautics and Astronautics, American Physical Society, American Society of Mechanical Engineers, Society of Women Engineers

## PUBLICATIONS AND PRESENTATIONS

- Belisle, M. J., Saric, W. S., Avila, M., Lopez, J. M., & Marques, F. (2009) "Mode competition in experimental modulated Taylor–Couette flow". Presented at the *16th International Couette–Taylor Workshop*, Princeton University.
- Avila, M., Belisle, M. J., Lopez, J. M., Marques, F. & Saric, W. S. (2008) "Mode competition in modulated Taylor–Couette flow" *J. Fluid Mech.* **601**, 381–406.
- Belisle, M. J., Saric, W. S., Lopez, J. M., & Avila, M. (2007) "Mode competition between reversing and nonreversing modulated Taylor-vortex flow". Presented at the *15th International Couette–Taylor Workshop*, Université du Havre.
- Belisle, M. J. (2007) "Temporal behavior of Taylor–Couette flow sinusoidally modulated about a zero mean." Presented at the *2007 AIAA Region VI Student Conference*, San Jose State University. Second place in Master's division.