

# Brief Curriculum Vitae

## Yanzhao Cao

Department of Math & Stat., Auburn University  
Auburn, AL 36849

### EDUCATION:

Virginia Tech	Ph.D. Mathematics, 1996 Thesis advisor: Max D. Gunzburger
Jilin University, China	M.S. Mathematics, 1986 Research area: Numerical analysis for PDEs
Jilin University, China	B.S. Mathematics, 1983 (No. 1 in GPA) Major: Computational Mathematics

### PROFESSIONAL EXPERIENCE:

10/2018 -	Don Logan Endowed Chair of Mathematics, Auburn University
8/2011 -	Professor, Auburn University
8/2008 - 8/2011	Associate Professor, Auburn University
8/1996 - 7/2008	Assistant and Associate Professor, Florida A& M University
8/2000 -2008	Affiliated faculty, School of Computational Sciences, Florida State University
9/1986 - 6/1991	Lecturer, Heilongjiang University, China

### RESEARCH INTEREST:

Numerical Solutions for PDEs and Stochastic PDEs  
Numerical Solutions for Integral Equations  
Computational Methods in Optimal Control of Fluid Flow; Shape Optimization  
Optimal Control Under Uncertainty

### CURRENT AND RECENT FUNDED RESEARCH PROJECTS:

Co-PI (PI Hongmei Chi, Florida A&M University, Co-PI Junshan Lin) **U.S. Army Armament Research, Development and Engineering Center research grant** Modeling, Imaging and Optimal Design in Nano-Optics, January 23, 2018–January 22, 2021, Auburn share: \$224,997.

PI, **NSF research grant** Efficient and high order PDF methods for nonlinear filtering problems, July 1, 2016– June 30, 2019, \$160,000.

Co-PI (PI, Guannan Zhang), **NSF research grant** Mathematical Methods for Optimal Polynomial Recovery of High-Dimensional Systems from Sparse and Noisy Data, September 15, 2016–August 30,2019, \$38, 913.

## **EDITORIAL BOARD:**

**Associate editor** Journal of Integral Equation and Applications, 2018–

**Associate editor** SIAM Journal on Numerical Analysis, 2007–

**Associate editor** Communications in Mathematical Research, 2012–

## **AWARD:**

Dean Faculty Research Award, College of Science and Mathematics, Auburn University, 2018.

SIAM Best Student Paper in Session Award, Clemson, 1996.