

Michael K. (Scott) Gordon, Ph.D.

Professional Preparation

INSTITUTION	DISCIPLINE	DEGREE	YEAR
Duke University	Mathematics	B.S.	1987
Duke University	Mathematics	M.A.	1989
Duke University	Mathematics	Ph.D.	1993

Appointments

PERIOD	POSITION	INSTITUTION
2015–2016	Interim Dean, COSM	University of West Georgia
2011–2016	Associate Dean, COSM	University of West Georgia
2008–Present	Professor	University of West Georgia
2001–2008	Associate Professor	University of West Georgia
1996–2001	Assistant Professor	University of West Georgia
1993–1996	Visiting Assistant Professor	North Carolina State University
1988–1993	Graduate Instructor	Duke University

University Committees and University Service

- Faculty Senate
- Student Life Committee
- Intercollegiate Athletics Committee
- Chief Diversity Officer Search Committee

College of Science and Math (COSM) Committees

- Dean's Advisory Committee
- Chair, Curriculum Committee
- Scholarship Committee

Department Committees and Service

- Promotion and Tenure Committee (Chair)
- Strategic Planning Committee
- Faculty Evaluation and Policies Committee
- Undergraduate Curriculum Committee
- Budget Committee
- Organizer, UWG Math Day
- Director and founder of Mathematics Masters Program
- Advisor to undergraduate and masters students

Grants

- PI on 3-yr STEM III Initiative Grant from University System of Georgia Board of Regents
- PI on 3-yr STEM IV Initiative Grant from University System of Georgia Board of Regents

Teaching Related Activities

- Recruited and advised teams competing in the Mathematical Contest in Modeling (3 Meritorious, 4 Honorable Mention's)
- Served as Host Site organizer for SCUDEM competition

Courses Taught

- Elementary Statistics
- College Algebra
- Precalculus
- Calculus I-III
- Ordinary Differential Equations
- Partial Differential Equations (Graduate and Undergraduate)
- Linear Algebra (Elementary and Upper Level)
- Complex Analysis
- Real Analysis (Graduate and Undergraduate)
- Number Theory
- Calculus of Variations
- Mathematical Modeling
- Geometry (Graduate and Undergraduate)
- Topology

Professional Activities

- Referee for Sports Engineering
- Reviewer for Math Reviews
- Referee for International Journal of Mathematics and Mathematical Sciences

Publications

1. **Gordon, M.**, "Perturbed Scale-Invariant Initial Value Problems in One-Dimensional Dynamic Elastoplasticity", *SIAM Journal of Mathematical Analysis*, **26**, no. 6, (1995) 1564–1587.

2. Shearer, M., Schaeffer, D., **Gordon, M.**, “Plane Shear Waves in a Fully Saturated Granular Material with Velocity and Stress Controlled Boundary Conditions”, *International Journal of Nonlinear Mechanics*, **32**, no. 3, (1997) 489–503.
3. **Gordon, M.**, Garaizar, F.X., “Riemann Problems for an Elastoplastic Model for Antiplane Shearing with a Nonassociative Flow Rule”, *Quarterly of Applied Mathematics*, **52**, no. 2, (1999) 527–554.
4. **Gordon, M.**, Garaizar, F.X., “Wave Speeds for an Elastoplastic Model for Two-Dimensional Deformations with a Nonassociative Flow Rule”, *Quarterly of Applied Mathematics*, **52**, no. 2, (1999) 527–554.
5. **Gordon, M.**, “A Free Boundary Problem for a Hypoplastic Model of Plane Shear Waves in a Fully Saturated Granular Material”, *SIAM Journal of Mathematical Analysis*, **34**, no. 3, (2002) 1564–1587.
6. **Gordon, S.**, “A Mathematical Model for Power Output in Rowing on an Ergometer”, *Sports Engineering*, **6**, no. 4, (2005) 221–234.
7. **Gordon, S.**, “Optimizing Distribution of Power During a Cycling Time Trial”, *Sports Engineering*, **8**, no. 2, (2005) 81–90.
8. **Gordon, M.**, “Nonuniformity of Deformation Preceding Shear-Band Formation in a Two-Dimensional Model for Granular Flow”, *Communications on Pure and Applied Analysis*, **7**, no. 6, (2008) 1361–1374.