

Gabriel Karpouzian

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Education

Degree	Discipline	Institution	Year
Ph.D.	Aerospace Engineering	University of Southern California	1985
M.S.	Aerospace Engineering	University of Southern California	1980
B.S.	Mechanics	University Paul Sabatier, Toulouse, France	1978

Academic Experience

Institution	Rank	Title	Dates	Full or Part Time
U.S. Naval Academy	Professor	Director of Aeronautics, 2011 Department Chair, 2007 - 2011.	1998 - present	Full
U.S. Naval Academy	Associate Professor		1992 - 1998	Full
U.S. Naval Academy	Assistant Professor		1987 - 1992	Full

Non-Academic Experience

- National Center of Advanced Manufacturing, Consultant, Worked on predictability of micro-cracks in composites under strain loading and the resulting degradation of stiffness properties, 2003-2006, part time.
- Naval Research Laboratory, Consultant, Analyzed the hydro-mechanical performance of flexible control surfaces on submarines, 2002, part time.
- NASA-University Consortium, Participant, Contributed to the analysis of the unsteady pressure measurements over an F/A-18E/F wing model in flight regimes where wing drop problems were encountered by the navy pilots, 2000-2001, full time.
- Great Lakes Composite Consortium (GLCC), Consultant, Analyzed the effect of steered-curved fibers on the overall performance of composite materials for future generation aerospace technology applications, 1997-2000, part time.
- USNA, Software Configuration Manager, Developed a configuration management for the Satellite Artificial Intelligent Laboratory (SAIL), 1995-1996.
- The JHU-APL, Consultant, Developed data retrieval software for measurements of the contamination effects on optical instruments of the Midcourse Space Experiments (MSX), 1994, part time.
- NAWC, Warminster (PA), Researcher, Worked on theoretical and experimental study of leading-edge flap oscillations, 1992-1993, part time.

- USNA, Researcher, Developed a refined structural model for a composite aircraft wing for aeroelastic stability analysis and used piezoelectric materials in modeling the control of aeroelastic instabilities of aircraft wing, 1993-1997, part time.
- USNA/USC, Researcher, Developed an unsteady aerodynamic model to study the hydro-mechanic performance of swimming and flying animal propulsion, 1988-1991, part time.
- USC, Consultant, Worked on a classified project for Hughes Aircraft, 1986-1987, part time.
- Rockwell International Science Center, Consultant, Worked on the transonic code for predicting drag on the tail of the space shuttle orbiter, 1984-1985, part time.

Certifications and Professional Registration

- None

Current Membership in Professional Organizations

- AIAA 1983 - present
- The Planetary Society 1995 - present

Honors and Awards

- Cash award for teaching excellence in the department, 1990
- Cash award for teaching excellence in the department, 1991

Service Activities

- USNA
 - Director of Aeronautics, 2011 – present
 - Senior Academic Adviser, 2011 – present
 - Affiliated Faculty, Center of Middle East and Islamic Studies, 2008 – present
 - Cultural immersion program, 2008 – present
 - Department Chair, 2007 – 2011
 - Promotion and Tenure Committee, 2004 – 2007
 - ABET Committee of the Division of Engineering and Weapons, 2003 – 2006
 - Associate Chair, Trident Scholar Committee (Yard), 2002 – 2004
 - Trident Scholar Committee (Division), 2000 – 2002
 - Chair, the USNA Sigma Xi Chapter, 1998 – 1999
 - Trident Scholar Committee (Yard), 1997 – 2000
 - Associate Department Chair, 1997 – 1999
 - International Board of Admissions Committee, 1996 – present
 - Chair, Faculty Senate Special Grievance Committee, 1995 – 1997
 - Faculty Senate, 1997 – 1998, 2003 – 2005
 - Facilitator, Integrity Development Seminars, 2007 – 2008, 1997 – 1998
 - Senior Academic Adviser, 2003 – 2007, 1994 – 1997
 - Coordinator of High School Summer Science Seminars, 1993 – 1997
 - The Raouf Engineering Teaching Award Committee, 1997 – present
 - AIAA Faculty Representative, 1989 – 1997
 - Clements Award Committee, 1989 – 1994
 - Middle States Accreditation Steering Committee, 1988 – 1989
 - Faculty Adviser, 1988 – present

- External
 - Research program reviews
 - Peer-review of journal submissions
 - Associate Editor, McGraw-Hill Encyclopedia of Science & Technology, 1999 – 2003
 - Local science fair judge at middle schools
 - AIAA, Baltimore chapter

Selected Publications and Presentations (Last Five Years)

[During my tenure as the department chair (2007-2011), the administrative tasks took much of the time in the day that little or no time was left for scholarly work. Below is my last archival publication before becoming the chair].

- R. N. Kostoff, G. Karpouzian, G. Malpohl, Text Mining the Global Abrupt-Wing Stall Literature, J. Aircraft, Vol. 2, 2005

Recent Professional Development Activities

[No recent professional activities were undertaken]

- AIAA Professional Study Series Course on Electric Propulsion for Space Systems, San Diego, CA, July 8-9, 1995.
- Short course on Advanced Analysis and Design of Composite Materials and Structures, UCLA, March 2-6, 1992.