

NAVAL POSTGRADUATE SCHOOL
Monterey, CA 93943

NPS (100)
April 6, 2023

MEMORANDUM

From: Provost and Chief Academic Officer
To: Naval Postgraduate School Faculty and Staff

Subj: PROMOTION AND TENURE DECISIONS FOR ACADEMIC YEAR 2023

It is a pleasure to announce the following faculty promotion and tenure decisions for AY 2023. Included with each name are comments indicating areas of accomplishment and leadership that were significant in consideration of the candidacy of the individual.

1. PROMOTION TO PROFESSOR and TENURE

Fabio Durante Pereira Alves, *Department of Physics*

This promotion is in recognition of Dr. Alves' scholarly output, superb teaching, and university and community service. Dr. Alves leads the development of a novel acoustic sensor capable of detecting highly localizing sounds, e.g., drone sounds or gun shots, and the development of terahertz (THz) emitters and sensors for space surveillance and reconnaissance. He has advised/co-advised over thirty theses. He is very thorough and methodical yet engaging in his interaction with students, enabling them to have a deep learning of the subject. He has served on key committees within, and external to, the department and is a valuable resource for junior faculty. For all these reasons, he is a valuable asset and leader within the Physics Department and NPS.

2. PROMOTION TO PROFESSOR

Chong Wang, *Department of Defense Management*

This promotion is in recognition of Dr. Chong Wang's many scholarly and pedagogic contributions in the areas of defense acquisition management, macroeconomics, and financial and managerial accounting. His research findings are published in high impact journals and address truly relevant questions in support of the Department of the Navy's increasing focus of financial auditability. His peers indicated that Dr. Wang "is always asking fundamental questions and addressing these questions with solid and structural (both theoretical and empirical) frameworks." Student evaluations of Dr. Wang have been overwhelmingly positive, with students praising his design and delivery of courses and his ability to explain complex information in a simple and logical way.

Ruriko Yoshida, *Department of Operations Research*

Dr. "Rudy" Yoshida is recognized as an international leader in algebraic statistics and tropical algebra, discrete mathematics, phylogenetic trees, and geometric aspects of statistical analysis.

Her research addresses critical defense topics including modifications to Marine Corps infantry battalion structure, data analysis of aircraft oil quality, determining structure in social networks with missing information, and cyber network intrusion detection. Her current research includes applications to medical evacuation during wartime. She is a dedicated educator in our statistics and data science courses, and an inspiring mentor to her many thesis students, supervising numerous theses, of which eleven were cited as outstanding theses and two of which won the department's MORS/Tisdale thesis award.

3. AWARD OF TENURE

Ibrahim Emre Gunduz, *Department of Mechanical and Aerospace Engineering*

This award of tenure is in recognition of Dr. Gunduz' record of accomplishments and clearly demonstrated propensity for continued contributions to teaching, research, and service at NPS. He has developed an excellent international reputation as an academic leader in the field of materials science research and development of additive manufacturing technologies. His activities are especially relevant to the Department of Defense. He is Co-Director of the Consortium of Additive Manufacturing Research and Education (CAMRE), a DoN multi-organizational consortium whose mission is to accelerate the adoption of additive manufacturing to solve the supply chain issue within the Navy while deployed.

4. PROMOTION TO ASSOCIATE PROFESSOR WITH TENURE

Anthony (Mustafa) Canan, *Department of Information Sciences*

This promotion and award of tenure are in recognition of Dr. Canan's significant contributions and demonstrated excellent results in research, teaching, and service. His publication record is impressive and includes publishing in the journal, *Nature*. He has clearly established himself as a leader in the fields of digital engineering and quantum information sciences. Dr. Canan brings in substantial research funding, recently helping secure a multi-year project sponsored by the Military Sealift Command whose projected funding is \$7M. Students enthusiastically report on his outstanding teaching for which he won the Schieffelin Award for Excellence in Teaching for AY2021. Additionally, he is serving as the Associate Chair for Research in the IS department.

Abram Clark, *Department of Physics*

This promotion and award of tenure are in recognition of Dr. Clark's scholarly contributions, excellence in teaching, and university and community service. Dr. Clark has made numerous seminal contributions to the study of granular material, changing the way researchers in the field think about problems, challenging accepted theories and presenting solutions with superb clarity and succinctness. He has applied his abilities to study swarm dynamics, with immediate impact to the Department of Defense. His teaching style resonates well with his students both in the classroom and with his thesis students. He has provided service to NPS through the Academic Council and leadership roles in Discover NPS Day.

Joseph Klamo, *Department of Systems Engineering*

This promotion and award of tenure are in recognition of Dr. Klamo's scholarly contributions in the areas of experimental and theoretical underwater vehicle hydrodynamics and vortex induced vibrations. His research results are published in high impact journals and address truly relevant high-value questions to the Navy, the DoD, and the fluid mechanics and systems engineering community at large. His professional expertise, growing reputation, leadership potential, service contribution, and high-quality teaching and dedication to his students in their thesis research, capstone projects, and degree programs, make him a valuable asset to the SE Department, NPS, and the Navy.

Mara Orescanin, *Department of Oceanography*

This promotion and award of tenure are in recognition of Dr. Orescanin's outstanding teaching, research, and service to NPS. She was ranked in the top 5% of instructors at NPS in AY2021. She obtained the prestigious NSF CAREER award in 2021. Dr. Orescanin brings in significant funding from ONR and NSF and has published numerous articles in high-quality journals. Dr. Orescanin's research in machine language and unmanned aerial vehicles is of high Naval relevance. She has served on the NPS Faculty Council as Faculty Council Secretary and as a member of the Executive Board and was recently named director of the ONR/NPS CRUSER.

Anthony Pollman, *Department of Systems Engineering*

This promotion and award of tenure were in recognition of Dr. Pollman's prolific work with students and his groundbreaking and relevant research. Between 2017 and 2022, Dr. Pollman shepherded over eighty students to graduation, mentoring students to co-author thirty-two peer-reviewed papers and delivering seventeen different courses. His trailblazing research in liquid energy storage and the operationalization of liquid hydrogen will lead to increased operational reach. The associated four patents from this work will have long-term impact on DoD and industry. Dr. Pollman increased the body of knowledge on these and other topics with over fifty-five publications among books, book chapters, peer-reviewed journals, and peer-reviewed conferences.

Douglas Van Bossuyt, *Department of Systems Engineering*

This promotion and award of tenure are in recognition of Dr. Van Bossuyt's many scholarly contributions in the areas of risk, failure, and resilience analysis; conceptual design; digital twin; and mission engineering. His research results are published in high impact journals and address truly relevant, high-value questions to the Navy, the DoD, and the systems engineering community at large. His professional expertise, growing reputation, leadership potential, service contribution, and high-quality teaching and dedication to his students in their thesis research, capstone projects, and degree programs, make him a valuable asset to the SE Department, NPS, and the Navy.

5. PROMOTION TO RESEARCH PROFESSOR

Davis Benjamin Reeder, *Department of Oceanography*

Dr. Reeder has established himself as a nationally and internationally recognized ocean acoustics researcher with wide impact across a breadth of disciplines including physical, biological, chemical and geological acoustical oceanography, underwater acoustics, and tactical oceanography. His work focuses primarily on complex topographic and thermohaline structure environments in Navy-critical areas such as the regional-scale South China Sea, the Arctic, and smaller scales such as critical rivers and estuaries. Dr. Reeder has established himself as a top-notch observationalist, being involved with twenty-five field campaigns since 2005, and he has built a reputation as an exceptional analyst of experimental results.

6. PROMOTION TO RESEARCH ASSOCIATE PROFESSOR

Jarema (“Jake) Didoszak, *Department of Mechanical and Aerospace Engineering*

Professor “Jake” Didoszak's record clearly demonstrates a propensity for continued contributions to teaching, research and service at NPS. He has developed an excellent reputation as a leader in the field of ship design and demonstrated the ability to provide uniquely relevant, naval-focused instruction and research opportunities for our students. Professor Didoszak is expected to continue as a leader for the Total Ship Systems Engineering (TSSE) and Ship Design Chair activities - core aspects of NPS and Navy research and education.

7. PROMOTION TO SENIOR LECTURER

Cristiana Matei, *Department of National Security Affairs*

This promotion is in recognition of Dr. Matei’s outstanding work as a teacher and scholar. During her thirteen years as a lecturer at NPS she led over fifty Mobile Education Teams overseas, taught fifty-four graduate classes for NSA and CHDS, and advised an impressive 116 M.A. theses. She has served on the Faculty Council, in various search committees, and in the COVID Task Force. Dr. Matei currently serves as the first female Chair of the Intelligence Section of the International Studies Association, elected by her peers in recognition of her scholarly contributions to the field of Intelligence Studies. She has an impressive record of publications as co-editor of three books and author of twenty peer-reviewed journal articles.

8. PROMOTION TO FACULTY ASSOCIATE – RESEARCH (AD-05)

Christian Fitzpatrick, *Department of Computer Science/MOVES*

Mr. Fitzpatrick has made significant contributions both to the MOVES curriculum and research portfolio. A key element that runs through all of Mr. Fitzpatrick’s work is the focus on Live, Virtual, Constructive (LVC)-related projects and education. This emphasis, which includes an increase in hands-on exercises, has greatly advanced our ability to train and prepare for the world in which we have to face peer adversaries, a top priority of senior Navy leadership. During COVID, Mr. Fitzpatrick worked with ITACS to create a dedicated VPN to allow students to connect to various M&S labs on and off campus. He is currently researching the utility of LVC

concepts in training operational forces at lower echelons to enhance the quality of training, planning, and executing missions.

Kristen Fletcher, *Energy Academic Group*

This promotion is in recognition of Ms. Kristen Fletcher's demonstrated ability to contribute to the Energy Academic Group, NPS and the NPS partnerships. Ms. Fletcher's ability to lead the Climate and Security pillar of the Energy Academic Group (EAG) and guide junior faculty and interns has made a positive impact on the research and capabilities of EAG. In addition to advising students through their thesis process, she is an excellent researcher who actively pursues reimbursable research sponsors and funding. Spearheading over \$1.6M in reimbursable research since joining EAG, Ms. Fletcher is effective in sponsor-engagement; ascertaining sponsor needs, matching this up against NPS capabilities; authoring proposals; and following the proposal process through to securing funding.

Eric Hahn, *Energy Academic Group*

Mr. Hahn's research focuses on energy systems and logistics, leading to numerous technical reports, presentations, proposals, and computer programs. Mr. Hahn's scholarly contributions have had a major impact on innovation and experimentation for the students and faculty at NPS. His accomplishments as an instructor, manager, and coordinator of the Defense Energy Seminar directly supported NPS students while introducing the criticality of operational energy components such as bulk energy, fuels, and distributed energy systems. He has significantly impacted EAG's students and interns with outstanding mentorship while contributing over \$1.8M of reimbursable funding since joining EAG.

Kirk Stork, *Department of Computer Science/MOVES*

This promotion is in recognition of Mr. Kirk Stork's contributions in designing and implementing computational models of decision making in military operations and building complex cloud infrastructure to support educational platforms that are accessed from around the world. As part of his role in research sponsored by the Operations Analysis Division (OAD) of USMC Combat Development and Integration (CD&I), he made significant contributions to the advancement of tools and libraries for the COMBATXXI constructive simulation distributed by Army Futures Command, including behavior libraries to support several major acquisition studies requiring a robust model of USMC indirect fires doctrine and ship-to-objective maneuver

Brian Wood, *Department of Information Sciences*

This promotion is in recognition of Mr. Brian Wood's excellent performance in initiating, leading, and managing complex field experiments for multiple sponsors. He has directly supported forty thesis students to generate high quality theses. In the past five years, he has worked on research projects and theses with seven of the thirteen departments at NPS, specifically: Information Sciences, Computer Science, Electrical and Computer Engineering, National Security Affairs, Operations Research, Physics, Systems Engineering, and the former Business Department; plus, the following groups: Cyber Academic, Energy Academic, Space Systems Academic, and Undersea Warfare Academic, as well as MOVES.

9. PROMOTION TO FACULTY ASSOCIATE – RESEARCH (AD-03)

Amelia Weld, *Department of Defense Analysis*

Ms. Amelia Weld serves as one of Global ECCO's main strategic gaming facilitators, tailoring each gaming exercise to the particular objectives for each course, class, or workshop. She has successfully run gaming exercises in over two hundred programs across twenty-three institutions, including the DoD, DoS, and DoJ. She is personally responsible for presenting the program and curriculum-enhancing content to the FBI, which led to a growing relationship. These efforts draw millions of dollars in reimbursable research and professional development to NPS each year. The Department's flagship programs—Global Ecco, the CORE Lab, and CODA Lab (recent recipient of a prestigious Minerva grant)—have only been possible through her efforts as the Contracting Officer Representative.

Congratulations to all!

SCOTT S. GARTNER
Provost and Chief Academic Officer

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President, NPS