

2022 HSI Summit Speaker Biographies

Melchor J. Antuñano, M.D., M.S.



Dr. Antuñano was born in Mexico City and is a graduate of the National Autonomous University of Mexico School of Medicine. He completed the Residency Program in Aerospace Medicine at Wright State University in Dayton, Ohio. He was a post-doctoral research associate with the U.S. National Research Council of the National Academy of Sciences at the USAF School of Aerospace Medicine in San Antonio, Texas. He is the Director of the FAA Civil Aerospace Medical Institute (CAMI) in Oklahoma City. He is credited with 948 professional presentations and invited lectures at national and international conferences in aerospace medicine in 42 countries, and with 65 scientific publications covering a variety of aerospace medicine topics. He is Past-President of the International Academy of Aviation and Space Medicine, the U.S. Aerospace Medical Association, the U.S. Space Medicine Association, and the

Iberoamerican Association of Aerospace Medicine. He is a Fellow of the Aerospace Medical Association and the Aerospace Human Factors Association. He is a member of the International Academy of Astronautics. He is Honorary Member of the Austrian, Brazilian, Colombian, Greek, Mexican, Peruvian, Slovenian and Turkish Societies of Aviation/Aerospace Medicine. He is a faculty member at the University of Texas Medical Branch in Galveston, and the National University of Colombia School of Medicine. He is a former faculty member at Wright State University School of Medicine. He has received 86 awards and recognitions for his academic, administrative, and research achievements. He has experience as private pilot, parachutist and scuba diver.

Dr. Karen M. Feigh



Dr. Karen M. Feigh is a Professor at Georgia Tech's Daniel Guggenheim School of Aerospace Engineering with a courtesy appointment in the School of Interactive Computing. As the director of the Georgia Tech Cognitive Engineering Center, she leads a research and education program focused on the computational cognitive modeling and design of cognitive work support systems and technologies to improve the performance of socio-technical systems. She is responsible for undergraduate and graduate level instruction in the areas of flight dynamics, human reliability analysis methods, human factors, human-automation interaction and cognitive engineering. Feigh has over 12 years of relevant research and design experience in fast-time air traffic simulation, ethnographic studies, airline operation control centers, synthetic vision systems for helicopters, expert systems for air traffic

control towers, human extra-vehicular activities in space, and the impact of context on undersea warfighters. Recently her work has focused on human-autonomy teaming and the human experience of machine learning across a number of domains. Dr. Feigh has served as both Co-PI and PI on a number of FAA, NIA, ONR, NSF and NASA sponsored projects. As part of her research, Dr. Feigh has published 40 scholarly papers in the field of Cognitive Engineering with primary emphasis on the aviation industry. She serves as an Associate Editor for the Journal of Cognitive Engineering and Decision Making. She previously served as the Chair to the Human Factor and Ergonomics Society's Cognitive Engineering and Decision Making Technical Group, and on the National Research Council's Aeronautics and Space Engineering Board (ASEB).

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Gary Watson



Mr. Watson, Vice President of Solutions at Fortem Technologies in Pleasant Grove Utah, joined the company in 2019 and is responsible for architecting innovative airspace security solutions for Fortem's global customers. An experienced speaker, Gary runs the Fortem webinar series, providing thought leadership and bringing in expert viewpoints from across the industry. Prior to Fortem, Gary spent over 30 years as a computer hardware and software engineer in the secure data storage industry, including 20 years as co-founder and CTO of Nexsan Technologies.

Jay Shively



Jay Shively is currently leading the Senior Scientist in Human Autonomy Teaming (HAT) lab at NASA-Ames. He previously led the Detect and Avoid element of NASA's UAS Integration into the NAS. Jay has studied workload for many years and was on the original NASA-TLX development team. Jay's focus has been on automation in unmanned systems for several years including supervisory control of multiple, heterogeneous systems by a single operator. After receiving his MS from Purdue University, Jay has been at NASA-Ames (in one capacity or another) for 35 years.

Dr. Auñón-Chancellor



Dr. Auñón-Chancellor received a BS in Electrical Engineering from George Washington University, Washington, D.C., in 1997 and an MD from the University of Texas - Health Science Center at Houston in 2001. She completed a 3-year residency in internal medicine at the University of Texas Medical Branch (UTMB) in Galveston, Texas, in 2004, and then completed an additional year as Chief Resident in the Internal Medicine Department in 2005. She also completed an aerospace medicine residency at UTMB as well as an MPH in 2007.

Dr. Auñón-Chancellor was selected by the National Aeronautics and Space Administration (NASA) in 2009. Board certified in Internal and Aerospace Medicine, she recently served as Flight Engineer on the International Space Station (ISS) for Expeditions 56 and 57. During her time on orbit, the crews contributed to hundreds of experiments in biology, biotechnology, physical science, and Earth science aboard the ISS. Investigations were led into new cancer treatment methods and algae growth in space. The crew also installed a new Life Sciences Glovebox, a sealed work area for life science and technology investigations that can accommodate two astronauts. During Dr. Auñón-Chancellor's first flight, she logged in 197 days in space. She currently holds three positions: Associate Professor of Clinical Medicine at Louisiana State University's Internal Medicine Residency Program in Baton Rouge, Program Director of the Aerospace Medicine Residency at the University of Texas Medical Branch in Galveston, TX, and Astronaut at NASA - Johnson Space Center where she covers medical issues and on-orbit support for the Astronaut Office.

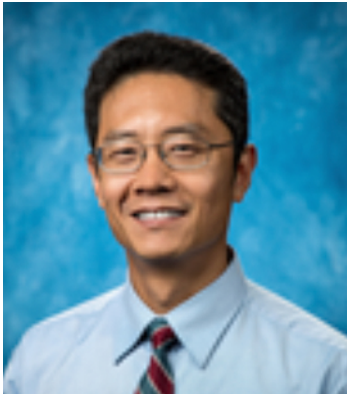
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Dr. Gideon Bass



Dr. Gideon Bass received his Ph.D. in Physics from George Mason University, with a research focus on using innovative machine learning techniques on astrophysical data sets. Afterwards, he joined Booz Allen Hamilton as a Data Scientist, where he has supported a wide variety of U.S. Government agencies from defense, intelligence, and the civil spaces on adapting and integrating machine learning techniques to improve their understanding and use of data. He has a particular passion for explaining complex topics in clear and understandable ways. At Booz Allen Hamilton, he has also researched the use of quantum computers for machine learning and optimization applications.

Dr. Dahai Liu



Dr. Dahai Liu is currently a Professor at the School of Graduate Studies of College of Aviation at Embry-Riddle Aeronautical University, Daytona Beach Campus. He received a Bachelor of Engineering in Management Information Systems and Master of Engineering in Systems Engineering from Tsinghua University in China, and a Ph.D. in Industrial and Management Systems Engineering from the University of Nebraska at Lincoln. Dr. Liu has over 20 years of experience in teaching and research in Human Factors Engineering, Systems Engineering, Systems Modeling and Simulation and application of Artificial Intelligence and Machine Learning in Aviation. His research has been funded by FAA, NASA, ONR and DOT. He has over 100 publications and author of two books. Currently his research is focused on using machine learning models to address transportation mobility under uncertain and emergent situations. He is a member of IEEE and a senior member of the Institute of Industrial Engineers.

Fabian Riesen



Fabian “Fabi” Riesen is the CEO of VRM-Switzerland (VRMotion Ltd.). In the last 20 years, Fabi, with a Degree in Electrical Engineering from 1998, has been developing various simulators. In 2014, Fabi started to experiment with VR combined with Motion Platforms. After the eMBA exam in 2016, Fabi has co-founded VRM-Switzerland. April 2021, Fabi’s Team achieved the world’s first EASA qualification with a Virtual Reality (VR) based Flight Simulation Training Device. Since 1999, Fabi owns PPL(A) SEP. In his free time, he enjoys the time with his family and in the nature of the Swiss Mountains, whereas he recently climbed all 48 summits above 4000m of the Swissalps, shortly before his 48th birthday. VRM Switzerland® has qualified the first VR training device as a type-specific Robinson R22 FNPT II under EASA regulation. The company consists of an innovative team of over 30 passionate

engineers, highly specialized developers and dedicated aviation experts. All mechanical designs and electronic circuits are designed and coordinated in-house. Another strength of the team is its proximity to flight schools and operators.

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Erin K. Chiou, Ph.D.



Erin K. Chiou, Ph.D., is an Assistant Professor of Human Systems Engineering at The Polytechnic School, part of the Ira A. Fulton Schools of Engineering at Arizona State University. She directs the Automation Design Advancing People and Technology Laboratory and studies human-automation interaction in complex work environments. Recent publications include an update to a seminal literature review on trust in automation (Chiou & Lee, 2021), an edited book volume on “Advancing Diversity, Inclusion, and Social Justice through Human Systems Engineering” (Roscoe, Chiou, & Wooldridge, 2019) with additional research streams in healthcare, education technology, defense, and security applications. Prior to joining ASU in 2016, Chiou received her Ph.D. and M.S. in Industrial and Systems Engineering from the University of Wisconsin-Madison, and her B.S. in Psychology and Philosophy from the University of Illinois at Urbana-Champaign.