

2021-2022 Faculty Fellow Bios

Carl Blue

Graphic Communications

Dr. Carl Blue is an Associate Professor on a tenure track in the Department of Graphic Communications in the College of Business. He obtained his B.S. in Communications with a concentration in Graphic Design from Appalachian State University in 1985. After undergrad, he volunteered for three years in the U.S. Peace Corps in Honduras and Uruguay as a teacher and graphic designer. In 1999, he returned to ASU to complete an M.A. in Industrial Arts with a concentration in Technical Communications in Digital Media. In 2003, he was recruited by North Carolina State University to pursue an Ed.D. in Technology Education. While at NCSU, he was a teaching assistant of digital graphics and media communication courses and a research assistant on two NSF grants for STEM curriculum development. After graduation in 2006, he became Coordinator of the Graphic Communication program and Assistant Professor at the University of Northern Iowa in the Department of Industrial Technology. In 2009, he relocated to Western Illinois University to work in the Department of Engineering Technology as an Assistant Professor in the Graphic Communications program. In 2011, he took a position as Associate Professor at the University of Southern Maine in the Department of Technology teaching in their Technology Management: Information and Communication Tech concentration degree. He received tenure in 2015 and served as Department Chair until 2019 when he left to take his present position at Clemson.

Karen High

Engineering and Science Education

Dr. Karen High holds an academic appointment in the Department of Engineering Science and Education at Clemson University. Prior to this, Dr. High was at Oklahoma State University where she was a professor for 24 years in Chemical Engineering. She received her B.S. in Chemical Engineering from University of Michigan in 1985 and her M.S. in 1988 and Ph.D. in 1991 in Chemical Engineering both from Pennsylvania State University. Dr. High's educational research emphasis includes faculty development and mentoring, graduate student development, critical thinking and communication skills, enhancing mathematical student success in calculus (including the impact of COVID-19) and promoting women in STEM. Her technical research focuses on sustainable chemical process design, computer aided design and multicriteria decision making. She also has extensive experience in K-12 STEM education and program evaluation and assessment. She has held a variety of administrative positions: Director of STEM Faculty Development Initiatives (Clemson); Associate Dean for Undergraduate Studies in the College of Engineering, Computing and Applied Sciences (Clemson); Interim Director of Student Services (Oklahoma State University); Coordinator of the Women in Engineering Program (Oklahoma State University) and Director of the Oklahoma State University Measurement and Control Engineering Center (Oklahoma State University).

Lea Jenkins

Mathematical and Statistical Sciences

Dr. Lea Jenkins is an Associate Professor in the School of Mathematical and Statistical Sciences. Her research focuses on the development of mathematical models and solution algorithms for complex problems. In particular, she uses mathematical methods to help farmers and water management agencies make efficient use of natural resources and to help chemical engineers improve the efficiency of biopharmaceutical production. She introduces writing into the Clemson curriculum by requiring students in her computational engineering course write a summary of their daily class work. She believes writing is an essential tool for dissemination of information, as well as being the best mechanism for retrospective analysis of her research.

Lesly Temesvari

Biological Sciences

Dr. Lesly Temesvari is an Alumni Distinguished Professor in the Department of Biological Sciences. Her research focuses on the dysentery-causing parasite *Entamoeba histolytica*. The pathogen is responsible for 50,000,000 infections around the world annually. She is also a founding member of the Eukaryotic Pathogens Innovation Center, a comprehensive research center focused on infectious diseases of global importance. In addition to bench science, Dr. Temesvari has a keen interest and both research and teaching experience in the area of science communication. For example, she collaborated with faculty and graduate students in the RCID Ph.D. program in CAAH to analyze how scientists communicate through microscopy images. This study was published in the *Journal of Technical Communication* and was nominated for Paper of the Year by the National Association of Teachers of English. She has designed and taught science writing classes at both the undergraduate and graduate levels. As a Fulbright Visiting Scholar, she taught science writing to graduate students at the University of Siena in Italy. For 21 semesters, she has led a group of undergraduate students who write the science column, *Tigra scientifica*, in the Clemson student body newspaper, *The Tiger*. In this capacity, she has mentored more than 100 student reporters who have written over 500 articles. Student participants have come from 14 different majors in five of Clemson's colleges: COS, CECAS, CAFLS, CAAH and CBSHS.

Shanna Hirsch

Education and Human Development

Dr. Shanna Hirsch is a graduate of Vanderbilt University (M.Ed., 2009) and the University of Virginia (Ph.D., 2016). She is an Associate Professor of Special Education in the College of Education. She has authored 50 peer-reviewed articles in the areas of special education and teacher education in professional journals such as *Journal of Applied Behavior Analysis*, *Elementary School Journal* and *Teacher Education and Special Education*. Dr. Hirsch is an elected board member of the Association of Positive Behavior Supports and is a co-PI on two federally funded projects related to technology. Project FRaME (Using Feedback, Reflection, and Multimedia to Teach Evidence-Based Practices in Classroom Management, \$1,399,759) is an IES development grant for multimedia instruction in teacher preparation coursework in classroom management. She is also a co-PI on CT-STEM Pop-Ups4all: An RPP for Agile Learning

(\$956,051). This is an NSF Research-Practitioner Partnership grant. She recently received two internal awards related to incorporating technology in preservice and in-service teacher development: pilot a mixed-reality simulator (\$50,000) and Project ECHO (\$10,000).