MANAGEMENT OF INNOVATION, SUSTAINABILITY, AND TECHNOLOGY (MIST)

GRADUATE PROGRAM IN MANAGEMENT OF COMPLEX SYSTEMS (MCS)

**Degrees Offered: Master of Science (M.S.) and Doctor of Philosophy (Ph.D.)
University of California, Merced**

The graduate program in **Management of Complex Systems** addresses cross-disciplinary challenges of understanding, modeling, designing, and managing complex systems, focusing on adaptive management of complex coupled human and natural systems and complex coupled human and technology systems, including for-profit and not-for-profit organizations and public and private enterprises.

ADMISSION INFORMATION
Applications open: Nov 2019 – Feb 2020

Financial aid and fellowships available
Requirements: Bachelors degree, GMAT or GRE

More information: mist.ucmerced.edu/phd-program-info

mist@ucmerced.edu

Multidisciplinary doctoral training
at the nexus of complex systems and management science

FOUNDATIONS OF MANAGEMENT

Apply disciplinary concepts and theories for framing and defining research questions and plans from business, management, economics, sociology, psychology, cognitive science, environmental science and engineering

RESEARCH METHODS FOR MANAGEMENT

Apply contemporary data analytics, complex systems, management and organizational science methods needed to conduct rigorous research in your area of specialization.

COMMUNICATION FOR MANAGERS

Communicate effectively to experts and non-experts, in professional (scientific and management) and community settings, preparing and delivering oral and written presentations using appropriate technologies.

RESEARCH INDEPENDENCE

Initiate and conduct independent research that makes an original contribution to knowledge, and which may be published in a peer-reviewed outlet.

RESEARCH ETHICS AND SOCIETAL CONTEXT

Demonstrate familiarity with all aspects of research ethics and their societal context.

MANAGEMENT OF INNOVATION, SUSTAINABILITY, AND TECHNOLOGY

Multidisciplinary faculty aligned around a common interest in better understanding how arrangements of people, organizations, information, technology and the natural world give rise to complex adaptive phenomena that pose grand decision-making challenges to society

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John Abatzoglou PhD, Earth Systems Science, University of California, Irvine

climatology, meteorology, rain, fire, snow, variability, natural resources, food security, megadrought

Roger Bales PhD, Environmental Engineering Science, California Institute of Technology

hydrology, glaciology, paleoclimate, atmospheric chemistry, environmental engineering

Anita Bhappu PhD, Management, University of Arizona

organizational behavior, diversity, teams, conflict and negotiation, service delivery, digital retailing and the sharing economy

Spencer Castro PhD, Psychology, Cognition and Neural Science, University of Utah

human attention capacity, cognitive workload, neuro-technology, multitasking, cognitive engineering

Jeffrey Jenkins PhD, Environmental Studies, University of California, Santa Cruz

political ecology, public lands and protected areas, community planning and adaptive management

Catherine Keske PhD, Agriculture and Resource Economics, Colorado State University

environmental studies, applied economics at food-water-energy nexus, land and resource management in fragile ecosystems

Crystal Kolden PhD, Geography, Clark University

pyrogeography, wildfire, terrestrial and ecosystem management, socioecological systems, ecology, remote sensing

Sarah Kurtz PhD, Chemical Physics, Harvard University

renewable energy, multijunction GaInP/GaAs photovoltaic devices and materials, sustainable energy transition

Tea Lempiälä PhD, Organizations and Management, Aalto University

innovation studies, organization theory, technological innovation processes and collaboration

Paul Maglio PhD, Cognitive Science, University of California, San Diego

service science, human-computer interaction, distributed cognition

Russell McBride PhD, Philosophy and Cognitive Science, University of California, Berkeley

entrepreneurship, strategy, cognitive science, and the structure of social reality

Tracey Osborne PhD, Energy and Resources, University of California, Berkeley

climate and social justice, political ecology, climate change mitigation in forests, commodification of nature

Alexander Petersen PhD, Physics, Boston University

socio-economic systems modeling, science communication, innovation, team, complexity, network science

Fanis Tsouhoulas PhD, Economics, University of Illinois Urbana-Champaign

corporate finance, governance and entrepreneurship, applied tournament theory, contract theory and economics of information

Josh Viers PhD, Environmental Sciences, University of California, Davis

watershed management, environmental decision making, environmental and hydro informatics, geospatial analysis

Leroy Westerling PhD, Economics and International Affairs, University of California, San Diego

applied climatology, wildfire, simulation and scenario analysis, climate change impact assessment, resource management policy

Lisa Yeo PhD, Operations and Information Systems, University of Alberta

economics of information systems, security and privacy, organizational behavior

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