Agenda

4:00 p.m. Pre-mingle

4:15 p.m. Welcome
Dr. Gary K. Ostrander
Vice President for Research

4:30 p.m. Keynote Address
Dr. Bindu Nair
Deputy Director, Basic Research Office
Department of Defense

5:00 p.m. Poster Session 1

5:30 p.m. Poster Session 2

6:00 p.m. Reception
Keynote Speaker

Dr. Bindu Nair

Dr. Bindu Nair is the Deputy Director for Basic Research within the Office of the Secretary of Defense (OSD). In this role, she is responsible for oversight and coordination of the Department’s $2.2B investment in basic science. Dr. Nair previously served as Deputy Director of OSD’s Human Performance, Training and Biosystems Directorate.

Prior to OSD, Dr. Nair worked for the Department of the Army with oversight responsibilities over the science and technology program in power and energy. She has worked in the DoD laboratory system at Natick Soldier Research, Development, and Engineering Center as well as in private industry at Foster Miller.

Her research expertise is in the field of Material Science and Engineering including nanomaterials, polymers, and organic electronic materials. Dr. Nair has published primarily in membrane and materials development fields and holds patents in fuel cell technologies. She holds a B.Sc from the University of Florida and a Ph.D. from the Massachusetts Institute of Technology in Materials Science and Engineering.
New this year, the Office of Proposal Development is pleased to announce the availability of competitive funding for project teams that form as a result of Collaborative Collision.

The Collaborative Collision seed fund provides up to $25,000 to the most promising new team to form as a result of connections made at Collaborative Collision events. Collaborative Collision grants are intended to catalyze team development, and allow a new team to position themselves to seek external funding for a new research initiative by demonstrating a history of successful collaboration. Grant recipients are expected to work with the Office of Proposal Development to submit external funding proposals within one year of the conclusion of a Collaborative Collision award.

Applicant teams to the seed fund must have attended the corresponding Collaborative Collision, and must not have previously co-authored any grant proposals or peer reviewed articles.

Full program details may be found at:

research.fsu.edu/CollaborativeCollision
Participants
Laurie Abbott  
College of Nursing  
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Research Interest(s):  
• Rural Health  
• Health Promotion

Jonathan Adams  
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Research Interest(s):  
• Machine Learning  
• Artificial Intelligence  
• Autonomous Aerial Systems

Farrukh Alvi  
College of Engineering  
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Research Interest(s):  
• Experimental Fluid Dynamics  
• High Speed Flows  
• Flow and Noise Control
Bahram Arjmandi
Nutrition, Food, and Exercise Sciences
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Research Interest(s):
• Osteoarthritis
• Osteoporosis
• Cardiovascular disease

Mandy Bamber
College of Nursing
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Research Interest(s):
• Mindfulness-Based Interventions
Hank Bass
Biological Science
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Research Interest(s):
• Plant genomics & chromatin structure
• 3D cell imaging with deconvolution
  florescence microscopy
• g-quadruplex DNA

Claire Berryman
Nutrition, Food, and Exercise Sciences
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Research Interest(s):
• Nutritional Physiology
• Metabolism
• Hypoxia

Pradeep Bhide
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Research Interest(s):
• Developmental neuroscience
• Cognitive neuroscience
• Movement disorders
Mark Bourassa
Center for Ocean Atmospheric Prediction Studies
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Research Interest(s):
• Air/Sea Interaction
• Remote Sensing
• Ocean/wave/atmosphere Modeling

Sandra Brooke
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Research Interest(s):
• Deep sea ecology
• Coral biology
• Chemosynthetic ecosystems

Joedrecka Brown Speights
Family Medicine and Rural Health
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Research Interest(s):
• Health Equity
• Maternal and Child Health
• Wellness/Mental Health
Kristina Buhrman  
Religion  
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Research Interest(s):  
- Religion  
- Science  
- Environment

Hongyuan Cao  
Statistics  
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Research Interest(s):  
- Clinical trials  
- High-throughput Omics data analysis,  
- Mental health outcome

Henry Carretta  
Behavioral Sciences and Social Medicine  
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Research Interest(s):  
- Service utilization in adults with autism  
- Chronic disease epidemiology and the social determinants of health  
- Service utilization in adults with Alzheimer’s disease
Rob Carroll
Political Science
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Research Interest(s):
- International relations
- Formal models
- Methodology

Sukanya Chakrabarti
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Research Interest(s):
- Oral history
- Globalization and transnationalism studies
- Experimental performance-making

Peter Cheetham
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Research Interest(s):
- High voltage engineering
- Cryogenics
- Electrical properties of materials
Banghao Chen
Chemistry and Biochemistry
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Research Interest(s):
• Chemistry, Materials & Environmental

Irinel Chiorescu
Physics
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Research Interest(s):
• Experiments in quantum control
• Quantum coherence
• Quantum materials

Juyenong Choi
Civil and Environmental Engineering
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Research Interest(s):
• Infrastructure planning in terms of sustainability and resilience
• Demolition planning
• System-of-systems
Russell Clayton
Communication
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Research Interest(s):
- Health Communication
- Media Psychology
- Psychophysiology

Sabrina Dickey
Nursing
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Research Interest(s):
- Cancer communication
- Minority Health Disparities
- Quality of life among cancer survivors

James Du
Sport Management
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Research Interest(s):
- Sport Management and Public Health
David Eccles  
Educational Psychology and Learning Systems  
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Research Interest(s):  
- The psychology of skill acquisition  
- Skilled and expert individual and team performance  
- Human performance under stress  

Debi Fadool  
Biological Science  
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Research Interest(s):  
- Obesity  
- Ion channel modulation  
- Olfaction  

Sarah Eyerly  
Music  
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Research Interest(s):  
- Acoustic ecology  
- Sound studies  
- Audible history
James Fadool
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Research Interest(s):
- Genetics
- Developmental Biology
- Neural Degeneration

Kelly Farquharson
Communication Science and Disorders
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Research Interest(s):
- Literacy disorders
- Speech and language development
- Children in poverty/ low income/ homelessness

Heather Flynn
Behavioral Sciences and Social Medicine
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Research Interest(s):
- Mental Health
- Substance Abuse
- Psycotherapy
Jens Foell
Psychology
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Research Interest(s):
• Personality
• Neuropsychology
• Mental health

Simon Foo
Electrical and Computer Engineering
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Research Interest(s):
• Machine Learning
• Solar Cells

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Research Interest(s):
• Materials
• Optics
• Electronics
Sonia Haiduc  
Computer Science  
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Research Interest(s):
• Software engineering
• Computer science education
• Software for social good

Greg Hajcak  
Biomedical Sciences  
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Research Interest(s):
• Cognitive neuroscience
• Depression
• Anxiety

Daniel Hallinan  
Chemical and Biomedical Engineering  
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Research Interest(s):
• Nanostructured Polymer Materials
• 3D Printing Solid Lithium Batteries
• Transport in Polymer Membranes for Gas and Water Separations
Kimberly Harris  
Dedman School of Hospitality  
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Research Interest(s):  
• Food safety  
• Consumer behavior  
• International food and beverage

Hans Hassell  
Political Science  
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Research Interest(s):  
• Representation  
• Government Responsiveness  
• Media

Matt Hauer  
Sociology  
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Research Interest(s):  
• Demography  
• Climate change  
• Population projections
Zhe He
Information
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Research Interest(s):
- Biomedical Informatics
- Clinical Research Informatics
- Data Mining and Machine Learning

Stephen Hennigar
Nutrition, Food, and Excercise Sciences
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Research Interest(s):
- Nutrition, Vitamin, and Mineral Metabolism
- Inflammation/infection

Robert Hickner
Nutrition, Food, and Exercise Sciences
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Research Interest(s):
- Microcirculation
- Fat metabolism
- Exercise
Phil Hiver
Teacher Education
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Research Interest(s):
• Second and foreign language learning and instruction
• Psycho-social factors in learning and teaching
• Complex and dynamic research methods for education

Shuyuan Ho
Information
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Research Interest(s):
• Disinformation
• Cloud forensics
• Trusted human computer interaction

Amy Huber
Interior Architecture and Design
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Research Interest(s):
• Persuasive communication
• Wellness environments
• Emerging technology
Roxanne Hughes  
National High Magnetic Field Laboratory  
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Research Interest(s):
- Building the STEM workforce
- STEM identity
- Improving the STEM climate

Patrice Iatarola  
Educational Leadership and Policy Studies  
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Research Interest(s):
- Education policy
- Inequality in urban areas

Mark Isaac  
Economics  
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Research Interest(s):
- Experimental research on: Public goods (e.g. free riding in alliances in Minerva area 3); auctions; and land acquisition
Stephanie James  
Art  
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Research Interest(s):  
• How making things/objects can create meaningful relationships  
• Space and how it impacts on our well-being  

Pascal Jean-Pierre  
Behavioral Sciences and Social Medicine  
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Research Interest(s):  
• Cancer and treatment-related neurocognitive dysfunction  
• Chronic diseases, brain structural and cognitive dysfunction  
• Measurement development and psychometric validation  

Lyndsay Jenkins  
Educational Psychology and Learning Systems  
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Research Interest(s):  
• Bullying  
• Youth mental health  
• Bystander behavior
Felecia Jordan Jackson
Communication
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Research Interest(s):
• Building interpersonal relationships
• Verbal aggression
• Instructional communication and student learning

Shawn Kantor
Economics
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Research Interest(s):
• Economics of innovation
• Technology diffusion
• Economic growth and development

Fengfeng Ke
Educational Psychology and Learning Systems
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Research Interest(s):
• Digital game-based learning
• Simulation and immersive learning for STEM
• Mixed reality
Charalambos Konstantinou
Electrical and Computer Engineering
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Research Interest(s):
- Cyber-Physical Systems Security
- Power Systems Resilience and Control

Steven Lenhert
Biological Science
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Research Interest(s):
- Nanotechnology
- Synthetic biology
- Drug discovery

Cathy Levenson
Biomedical Sciences
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Research Interest(s):
- Traumatic Brain Injury (TBI)
- Concussion
Lichun Li
Industrial and Manufacturing Engineering
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Research Interest(s):
• Game theory
• Control theory
• Cyber-human-physical systems

Richard Liang
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Research Interest(s):
• Data-driven manufacturing
• Nanosensors and multifunctional materials/devices
• Structural composites and nanocomposites

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Computer Science
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Research Interest(s):
• Deep learning
• Natural language processing
• Reinforcement learning
Elizabeth Madden
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Research Interest(s):
- Aphasia
- Reading
- Communication disorders

Iskandaria Masduki
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Research Interest(s):
- Competency research
- Evidence-based assessment
- Learning and cognition

Sophie McCoy
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Research Interest(s):
- Marine biology
- Biogenic minerals
- Pollution and climate
Graham McDougall  
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Research Interest(s):  
• Cognitive Aging  
• Memory  
• Precision Health  

Patrick Merle  
Communication  
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Research Interest(s):  
• Terror management theory  
• Crisis/risk communication  
• Teaching abroad  

Anke Meyer-Baese  
Scientific Computing  
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Research Interest(s):  
• Brain and cancer research  
• Radiomics/radiogenomics for prostate cancer  
• Alzheimer research
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Research Interest(s):
• fMRI
• Transcranial magnetic stimulation
• Cognitive control

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Research Interest(s):
• Genetics
• Neuroscience

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Research Interest(s):
• Quantum computing
• Artificial intelligence
• Multifunctional materials
Eren Ozguven  
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Research Interest(s):  
• Emergency logistics  
• Smart cities  
• Intelligent mobility

Jill Pable  
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Research Interest(s):  
• Homelessness  
• Built environment  
• Environmental psychology

Michele Parker  
Family and Child Sciences  
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Research Interest(s):  
• Family effects of autism  
• Integrative care and family therapy  
• Physiology and personal relationships
Michelle Parvatiyar
Nutrition, Food, and Exercise Sciences
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Research Interest(s):
• Exercise science
• Cardiovascular risk factors
• Inflammatory disease

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Research Interest(s):
• Psychological assessment
• Neurophysiology
• Mental health and adaptive performance

George Pesta
Criminology and Criminal Justice
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Research Interest(s):
• All areas in criminology and criminal justice
Carrie Pettus-Davis  
Social Work  
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Research Interest(s):
• Criminal justice  
• Behavioral health  
• Technological applications for treatment interventions

Scott Pickett  
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Research Interest(s):
• Psychological Trauma  
• Emotion Regulation  
• Sleep Disruption

Qinchun Rao  
Nutrition, Food, and Exercise Sciences  
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Research Interest(s):
• Food Safety  
• Food Quality  
• Food Nanotechnology
Chet Ray  
Nutrition, Food, and Exercise Sciences  
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Research Interest(s):  
- Physiology  
- Cardiovascular health  
- Stress

Tanya Renn  
Social Work  
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Research Interest(s):  
- Health  
- Addiction  
- Criminal Justice

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Research Interest(s):  
- Synthetic Biology  
- Cell-based Diagnostics and Therapeutics  
- Computer-aided Design and Engineering
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Research Interest(s):
• Artificial Intelligence
• Fuzzy Systems

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Research Interest(s):
• Stress
• Aging and health
• Childhood adversity

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Research Interest(s):
• Computational Mechanics
• Bio-inspired Engineering
• Renewable Energy
Theo Siegrist  
Chemical and Biomedical Engineering  
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Research Interest(s):  
• Materials Science  
• Materials under extreme conditions  
• Structure-property relationships

Geoffrey Strouse  
Chemistry and Biochemistry  
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Research Interest(s):  
• Magnetism  
• Lighting  
• Biomedical

Yanshuo Sun  
Industrial and Manufacturing Engineering  
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Research Interest(s):  
• Mathematical programming  
• Microeconomics  
• Transportation & mobility systems
Aavudai Anandhi Swamy  
Civil and Environmental Engineering  
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Research Interest(s):

- Environmental change is constant - access, adapt, mitigate

Meredith Thomas  
Marketing  
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Research Interest(s):

- Community
- Urban planning
- Consumer well-being

Sana Tibi  
Communication Science and Disorders  
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Research Interest(s):

- Literacy
- Psychology
- Educational technology
Mehdi Vahab  
Mechanical Engineering  
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Research Interest(s):  
• Computational fluid dynamics  
• Phase-change systems  
• Fluid-structure interaction  
• Multimaterial simulations

Jamie Valentine  
Campus Sustainability  
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Research Interest(s):  
• Community engagement  
• Sustainability  
• Social justice

Hui Wang  
Industrial and Manufacturing Engineering  
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Research Interest(s):  
• Data fusion  
• Internet-of-things  
• Automation
Zuoxin Wang  
Psychology  
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Research Interest(s):
• Social behaviors  
• Drugs of addiction  
• Neurochemical mechanisms

Jessica Wendorf Muhamad  
Communication  
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Research Interest(s):
• Participatory-based methods  
• Hypervulnerable populations  
• Systems thinking (experiential activities)

Frankie Wong  
Nursing  
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Research Interest(s):
• HIV/Sexually Transmitted Infections  
• Sexual Health  
• Migration and Health
Yan Xin
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Research Interest(s):
- Materials characterization at atomic scale
- Phase transition in-situ TEM study
- TEM

Peng Xiong
Physics
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Research Interest(s):
- Novel superconductivity
- Spintronics
- Quantum computing

Zhibin Yu
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Research Interest(s):
- Composite materials
- Energy
- Defense
Qian Zhang
Educational Psychology and Learning Systems
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Research Interest(s):
• Longitudinal data analysis
• Multilevel modeling
• Mediation and moderation analysis
• Missing data problems

Lingjiong Zhu
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Research Interest(s):
• Applied probability
• Data science
• Financial engineering
Thanks to Our Sponsors

Assistance Provided By

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