



JIM McNATT  
INSTITUTE FOR  
LOGISTICS RESEARCH

## Research BREAKS Sessions

There are no Research BREAKS scheduled during the Summer months. Information about upcoming sessions will be available when Research BREAKS resume in the Fall.

### About

#### Research BREAKS:

All UNT researchers are invited to participate in a new research education series every first and third Thursday of the month. Each session will be led by a topic expert in the field in order to elevate best practices, while answering some of the most frequently asked questions by UNT researchers related to the topic. These hour-long discussions are a comfortable conversation where no question is too basic, too simple, or too complicated. Our team of research experts will bring the conversation topics to the researchers.



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## Proposals and Opportunities

### Selected List of Proposals Submitted in April

Proposal Title/Topic: Research and Evaluation on Trafficking in Persons

Funding Agency: Department of Justice

### Funding Opportunities

If interested in applying, please email [Kathy Dreyer](mailto:kathy.dreyer@unt.edu)

Proposal Title/Topic: [Convergence Accelerator](#)

Funding Agency: National Science Foundation

**Proposal Due Date**: LOI May 31, 2022; Full proposal July 20, 2022

Proposal Title/Topic: [Preparing the Transportation Workforce for the Deployment of Emerging Technology](#)

Funding Agency: Transportation Research Board

**Proposal Due Date**: June 9, 2022

## NSF Award Notice

A proposal submitted to NSF by Dr. Kamesh Namuduri from the College of Engineering has been selected for funding. "RINGS: Mobility-driven Spectrum-Agile Resilient mmWave Communication Links for Unmanned Aerial Vehicle Traffic Management in the Sky" is a project in collaboration with the University of New Mexico. Dr. Ifana Mahbub, also from the College of Engineering, is a Co-PI on this proposal. Both Dr. Namuduri and Dr. Mahbub are members of the Jim McNatt Institute.

## NSF Grants Conference

The National Science Foundation (NSF) is conducting its **Spring 2022 NSF Virtual Grants Conference** during the week of **June 6 - 10, 2022**.

Registration will be free of charge and opens on **Wednesday, May 11 at 12 p.m. EST**. Register as soon as possible in order to secure a spot in the sessions.

Current information about the conference, as well as [recordings](#) of sessions from previous conferences, are available at [nsfpolicyoutreach.com](https://nsfpolicyoutreach.com).

Fall 2021 Virtual Grants Conference recordings are also located on NSF's [YouTube](#) page.

All recorded conference sessions will be available on-demand shortly after the event and posted on NSF's [website](#) and [YouTube](#) page.

## NIST Conference

On June 16, 2022, the National Institute of Standards and Training is conducting a symposium on space cybersecurity. Co-hosted by the Department of Commerce and Department of Homeland Security, the virtual symposium offers relevant cybersecurity threat updates and geopolitical awareness, which will help develop actionable ideas for securing space businesses and open data systems. The event will also offer an opportunity to discuss recent cyber legislation and executive orders.

You can find more information and register for the event [here](#).

# Research Profile

## Suman Nirnanjan

### Background:

[Suman Nirnanjan, Ph.D.](#), Engineering-Industrial and Human Systems, is currently an Assistant Professor of Logistics in the G. Brint Ryan College of Business at the University of North Texas. He received his B.S. in Electronics and Communication Engineering from Visvesvaraya Technological University in 2003. He earned his M.S. in Human Factors Engineering and his PhD in Industrial and Human Systems Engineering in 2005, both from Wright State University. Over the past 14 years his research has focused on multi-echelon inventory optimization, supply chain collaboration, applied multi-method simulation, transportation psychology, driving simulators, and process improvement in healthcare data. In April 2017, Dr. Nirnanjan received the President’s faculty award for innovation and excellence from Savannah State University. He also received an award for excellence in teaching from the National Society of Leadership and Success at Savannah State University in December 2015.



Dr. Nirnanjan currently works on three distinct multi-disciplinary research areas. He is researching the physiological and psychological aspects of a vehicle operator when distracted driving behavior occurs. This collaborative research includes faculty in logistics and decision sciences, electrical and biomedical engineering, computer science, learning technologies and physiology. He is seeking external funding from the National Science Foundation (NSF), Department of Defense (DoD), Department Of Transportation (DoT), Toyota Material Handling North America, and private companies. Dr. Nirnanjan is also conducting research to determine optimal conditions for sharing field technicians across multiple territories. This research involves faculty in logistics, industrial engineering, computer science engineering and geographic information systems. His focus for obtaining external funding has been with NSF and private companies. Further, Dr. Nirnanjan conducts process improvement research, focusing on warehouse distribution center returns and clinics/hospitals resources. This research includes faculty in logistics and systems engineering. He is submitting proposals to private companies for external funds.

Dr. Nirnanjan has more than 45 research publications, including journal papers and conference proceedings. His research has appeared in the Journal of Business and Industrial Marketing, Transportation Research-Part F, the Journal of Business Logistics, Decision Sciences, and the Journal of Enterprise Information Management. Dr. Nirnanjan has been awarded nearly \$1.2M in external funds from NSF, DoD, the National Institutes of Health, and private companies. He has served as a consultant for distribution centers for companies such as IKEA and AmerisourceBergen. Currently, Dr. Nirnanjan is a consultant on multiple projects for Shaw Communications Inc., and StratiFi Health Inc.

### Driver Simulator in Logistics Lab: Distracted Driving Study via Driving Simulator



### Warehouse and Distribution Center (WDC) – Distracted Driving for Forklift Operators

