

# Transportation and Urban Systems

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## Department Information

- **Department Chair:**  
Tim Peterson, Ph.D.
- **Academic Coordinator:**  
Jody Bohn Baldock
- **Email:**  
jody.bohn.baldock@ndsu.edu
- **Department Location:**  
Upper Great Plains Transportation Institute, QBB 418
- **Department Phone:**  
(701) 231-7767
- **Department Web Site:**  
[www.ndsu.edu/business/programs/graduate/mtus/](http://www.ndsu.edu/business/programs/graduate/mtus/) (<http://www.ndsu.edu/business/programs/graduate/mtus/>)
- **Application Deadline:**  
July 1 for fall semester; December 1 for spring semester; April 1 for summer semester
- **Credential Offered:**  
M.S., M.T.U.S., Certificate - All programs offered online only
- **English Proficiency Requirements:**  
TOEFL iBT 71; IELTS 6; Duolingo 100

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## Faculty

### **Raj Bridgelall, Ph.D.**

North Dakota State University, 2015

Research Interests: Big Data Analytics, Internet-of-Things (IoT), Cloud Computing; Connected and Autonomous Vehicles (CAV), Shared Mobility, Intelligent Transportation Solutions; Signal Processing and Mathematical Modeling of Transportation Systems; Remote Sensing with Unmanned Aircraft Systems; Hyperspectral Image Analysis; Radio Frequency Identification (RFID); Real-Time Locating Systems (RTLS); Energy Harvesting and Massive Scale Autonomous Wireless Sensor Networks

Department: Transportation, Logistics, and Finance

### **Robert Froberg, Ph.D.**

North Dakota State University, 2019

Research Interests: Transport of Rolling Stock, Equipment, and Supplies to Austere Locations, Austere Environment Sustainment Planning, Transportation Analysis and Planning for Logistics, Supply Chain Planning, Assessment, and Optimization Leveraging (Big) Data, Modeling of Supply Chains and Transportation Networks

Department: Transportation, Logistics, and Finance

### **Ranjit Godavarthy, Ph.D.**

Kansas State University, 2012

Research Interests: Public Transportation in Small Urban and Rural Areas, Demand Response Transit and Paratransit, Bike Share, Roundabouts, Traffic Engineering and Operations, Transportation and Highway Safety

Department: Transportation, Logistics, and Finance

### **Pan Lu, Ph.D.**

North Dakota State University, 2011

Research Interests: Connected and Autonomous Vehicles, Smart Material and Structure Health Monitoring, Big Data Analytics for Transportation, Smart Transportation, Transportation System, Asset Management, Multimodal Transportation, Geospatial Transportation Modeling

Department: Transportation, Logistics, and Finance

### **Jeremy Mattson, Ph.D.**

North Dakota State University, 2017

Research Interests: Public Transportation, Transportation Economics, Demand Modeling, Travel Behavior, Built Environment

Department: Transportation, Logistics, and Finance

### **Diomo Motuba, Ph.D.**

North Dakota State University, 2009

Research Interests: Transportation and Land Use Planning, Freight Modeling, Transportation Economics, Connected Automated Vehicles, Logistics and Supply Chain Management, Transportation Safety  
Department: Transportation, Logistics, and Finance

**Tim O. Peterson, Ph.D.**

Texas A&M University, 1988

Research Interests: Managerial Leadership, Application of Information Technology to Organizational Issues, Scholarship of Teaching

Department: Management and Marketing

**Fred Riggins, Ph.D.**

Carnegie Mellon University, 1994

Research Interests: Economics of Information Systems, Interorganization Systems, Adoption of New Technology, Radio Frequency Identification (RFID), Internet-of-Things (IoT), Blockchain, Cryptoeconomics, Information and Communication Technology in Microfinance

Department: Accounting and Information Systems

**Robert Swearingen, Ph.D.**

North Dakota State University, 2019

Research Interests: Change Management in Supply Chain Organizations, Lean Inventory Management Process Improvement Supported by Value Stream Mapping, Enterprise Information Systems Supporting Supply Chain Management

Department: Transportation, Logistics, and Finance

**Joseph Szmerekovsky, Ph.D.**

Case Western Reserve University, 2003

Research Interests: Project Management and Scheduling, Supply Chain Management and Technology, Energy Supply Chain Management, Healthcare Logistics

Department: Transportation, Logistics, and Finance

**Denver Tolliver, Ph.D.**

Virginia Polytechnic Institute and State University, 1989

Research Interests: Highway Systems Modeling, Multimodal Transportation Planning, Freight Transportation, Energy and Environmental Analysis

Department: Transportation, Logistics, and Finance