



## **The National Consortium for the Study of Terrorism and Responses to Terrorism (START) & the Unconventional Weapons and Technology (UWT) Division**

Lead Investigator: Gary Ackerman, PhD

Current Team Members: Cory Davenport, PhD

Steve Sin

John Sawyer, PhD

Markus Binder

Emily Iarocci, PhD

# Research Areas of Interest

- Chemical, biological, radiological and nuclear threats and other emerging technologies from non-state actors
- Social/behavioral elements of terrorism, including terrorist decision-making processes and assessments of organizational capability to adopt different technologies
- Risk analysis, policy analysis, and database development

# Qualifications & Capabilities

Project Name	Expert Elicitation & Surveys	Computational Simulation	Social Network Analysis	Risk / Game Theory	Geospatial Analysis	Statistical Analysis	Total Methods
	Field Work / Interviews / Case Studies	Expert Elicitation & Surveys	Data Infrastructure	Risk / Game Theory	Statistical Analysis	Statistical Analysis	Total Methods
<b>MODELS &amp; TOOLS FOR RISK ANALYSIS</b>							
Anatomizing CBRN Non-State Adversaries	Y	Y	Y	Y	Y	Y	
Nexus between Terrorism, Organized Crime and RN Smuggling	Y	Y			Y	Y	
Dissuading Adversaries and their RN Pathways	Y			Y	Y	Y	Y
Insider Threat for Inbound International Air Cargo	Y	Y				Y	
Future Adversary RN Attack Model			Y	Y	Y		
RN-STAT	Y					Y	
Terrorist Weapons Adoption Model	Y	Y				Y	
<b>POLICY ANALYSIS</b>							
Data Integration Tool for Strategic Evaluation of the GNDA					Y		
International & Regional Architecture Reports		Y	Y			Y	
Failure Points in Smuggling Networks	Y	Y			Y		
Strategic Assessment of Border Engagement & Response	Y	Y					
Mapping RN Capabilities Detection Framework				Y	Y	Y	
Threat Perception & Device Acceptance		Y	Y				
Counter Radicalization of BioScientists	Y	Y					
Consensus Framework for Biothreat Characterization		Y	Y				
<b>DATABASES</b>							
POICN	Y				Y	Y	Y
CABNSAD / RANNSAD					Y		

**UWT CAPABILITIES MATRIX**

# Capabilities Sought

- Growing portfolio on insider threat and cyber terrorism
  - Intelligence Community Postdoctoral Fellowship (Davenport)
    - Cyber and CBRN
    - Behavioral indicators and ways to deter/mitigate/prevent
  - Other efforts
    - Counter-radicalization of disgruntled scientists
    - Radicalized scientists
    - Insider threat to aviation security

# Contact Information

**Gary Ackerman, PhD**

Director, Unconventional Weapons and Technology  
Research Division, START, University of Maryland

[ackerman@umd.edu](mailto:ackerman@umd.edu)

301.405.6656

[www.start.umd.edu](http://www.start.umd.edu)