

2023 Trust & Influence Program Review

Dr. Laura Steckman | August 14-18, 2023 | USAFA, CO -hybrid

Air Force Academy (USAFA) | Colorado 80840
Polaris Hall

(All Times MDT)

Agenda Day 1 | Monday, August 14, 2023

Time	Topic	Speaker
9:45	Zoomgov login	
1000-1125	Speaker: Dean Brig Gen Letendre	Introduction by Dr. L. Steckman
	USAFA	Lt Col Chad Tossell - USAFA
	Program Progress	Dr. Laura Steckman - AFOSR
1130-1140	BREAK	
1145-1155	Lightening Talk: Identifying the Salient Signals Exchanged between Facilitators and Participants during Problem Polving	Dr. Jessica Menold The Pennsylvania State University
1200-1255	LUNCH	
1300-1310	Lightening Talk: CAMPeN: A Novel Human-AI Collaborative Framework for Multi-Perspective Narrative Analytics and Braiding at Scale	Dr. Shubhra Kanti Karmaker Auburn University, Alabama
1310-1320	Lightening Talk: Autonomy-mediated trust: Supportive autonomy for resolving disputes and fostering relationships in heterogeneous teams	Dr. Jonathan Gratch University of Southern California
1320-1330	Lightening Talk: A Network Theory of Credence	Dr. Yu-Ru Lin University of Pittsburgh
1330-1340	Lightening Talk: Building and Exploiting Theory of Mind to Support Trust Calibration in Human-Machine Joint Action	Dr. Wenlong Zhang Arizona State University
1340-1350	Lightning Talk: The Effects of West African Historical Time on Socio-Political Behavior	Dr. Doug Leonard US Air Force Academy Department of History
1350-1415	Understanding Individual and Team Cognition in Support of Future Space Missions	Dr. Stephen Fiore University of Central Florida
1415-1440	Linking networks to uncover cryptic risks and vulnerabilities	Dr. Shade Shutters Arizona State University
1440-1450	BREAK	
1455-1520	Calibrated Norm Violation Response in Human-Machine Teaming	Ms. Terran Mott Colorado School of Mines
1520-1545	Human-Machine Sensory Sharing for Swift Trust in Autonomy	Dr. Eric Du University of Florida
1545-1610	Search Algorithms, Political Bias, and Racialized Discourse	Dr. Brian Ekdale University of Iowa

1610-1635	The ethics of warfighter participation in the development and testing of AI-driven performance enhancements	Dr. Nicolas Evans University of Massachusetts, Lowell
1700	REVIEW ADJOURN	

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(All Times MDT) Agenda Day 2 Tuesday, August 15, 2023		
Time	Topic	Speaker
7:45	Zoomgov login	
0800-0825	Global Security Program: Contested Cross-border Spaces, Illicit Flows, and Order in the Contemporary World	Dr. Annette Idler University of Oxford
0825-0850	Enabling Trusted Human-Like Artificial Teammates	Dr. Matthias Scheutz Tufts University
0850-0915	Analyzing Effects of Sanctions on International Economic Interdependencies	Dr. Lincoln Pratson Duke University
0915-0940	Detecting and Mitigating Adversarial Influence Operations in Networks	Dr. Kristina Lerman USC Information Sciences Institute
0940-0955	BREAK	
1000-1025	Metrics and Models for Real Time Inference and Prediction of Trust in Human-autonomy Teaming	Dr. Zhaodan Kong University of California, Davis
1025-1050	Climate Change, Resource Reallocation, and Great Power Competition	Dr. Kristopher Ramsay Princeton University
1050-1130	Robot Anthropomorphism and Overtrust in Life-or-death Decision-making	Dr. Colin Holbrook University of California, Merced
1130-12:05		
1205-1300	LUNCH	
1305-1330	Comparing Underlying Drivers of South-North Migration in Central America and West Africa	Dr. David Wrathall CIESIN, Columbia Climate School, Columbia University
1330-1355	Modeling and Calibrating Trusted Interactions between a Human Agent and AI system: A Combined Quantum-cognitive and EEG based	Prof. Peter Bruza Queensland University of Technology

	Approach	
1355-1420	Automatic Detection and Analysis of Extremist Video Content on Social Media using Text, Speech, and Visual Features	Ms. Lin Ai Columbia University
1420-1435		
1435-1450	BREAK	
1455-1520	Positively Influencing Attitudes and Behaviors Through Social Media Messaging	Dr. Kathleen Larson 711 Human Performance Wing
1520-1545	A Cognitive Modeling Approach for Understanding Computational Intelligence-human Interactions in Uncertain and Complex Decision-making Environments	Dr. Edmundo Molina-Perez Tecnologico de Monterrey
1545-1610	Understanding Influence using Personality-driven Profiles and Prevention (IP3)	Dr. Neil Shortland University of Massachusetts, Lowell
1610-1635	Computational Kremlinology: Analyzing the Dynamics of Authoritarian Regime Elites using Networks Constructed from Images and Text	Dr. Michael Gabbay University of Washington
1635-1700	Trust and Teaming in Voice-based Human-computer Interactions	Dr. Luciana Ferrer CONICET
1700	REVIEW ADJOURN	

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Agenda Day 3 Wednesday, August 16, 2023		
Time	Topic	Speaker
7:45	Zoomgov login	
0800-0825	Detecting Stances and Moral Events in Media Narratives	Dr. Lu Wang University of Michigan
0825-0850	Trust Dynamics in Heterogeneous Human-Agent Teams: Applying Multilevel and Unobtrusive Perspectives	Dr. Meredith Carroll Florida Institute of Technology
0850-0915	Moral Justification to Foster Human-Machine Trust	Dr. Elizabeth Phillips George Mason University

0915-0940	Post-Conflict Security Structures and Citizen Buy-In	Mr. Carlos Schmidt-Padilla University of California, Berkeley
0940-1040	Keynote Speaker	Dr. Joel Mozer United States Space Force, Director of Science, Technology and Research
1040-1100	*Maybe extend lunch by 10 minutes?	
1100-1150	LUNCH	
1150-1200	Meet at Observation Point to Watch Noon-meal Formation	
1200-1215	Noon-meal Formation	
1215-1345	Tours	
1350-1415	Complex Linkages, Ambivalent Ties: Global Security and Economic Interdependence in the 21st Century	Dr. Erik Gartzke cPASS, UCSD
1415-1440	Climate Change and Alternative Governance	Dr. Cyanne Loyle University of Maryland
1450-1500	BREAK	
1500-1525	Economic Interdependence and National Security in the 21st Century	Dr. Erik Gartzke cPass, UCSD
1525-1550	DOD Minerva grant: Social and institutional determinants of vulnerability and resilience to climate hazards in the African Sahel	Dr. Leonardo Villalon University of Florida
1550-1615	Narrating National Artificial Intelligence Infrastructures: Insights from Social and Computer Sciences on Technological Diffusion	Dr. JP Singh George Mason University
1615-1640	Trust Building in Human-autonomy Teaming: A Reinforcement Learning Approach	Dr. Jessie Yang University of Michigan
1700	REVIEW ADJOURN	
1800-2000	No-host social: Variety of food from local vendors will be available for purchase. Even though our reserved time will end at 8pm, feel free to stay and enjoy this local favorite.	

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Agenda Day 4 | Thursday, August 17, 2023

Time	Topic	Speaker
7:45	Zoomgov login	
0800-0825	Considerations of Ethical and Unethical Behavior on Trust in Human-Autonomy Teaming	Dr. Nathan McNeese Clemson University Dr. Chris Flathmann Clemson University
0825-0850	The Role of Structural Language Adaptation in Human-Machine Team Performance	Dr. Sarah Bibyk AFRL
0850-0915	Human & Intelligent-Agent Trust for Ethical and Effective Teaming	Lt Col. Chad Tossell USAF Academy
0915-0940	The Spread of Trust and Distrust in Distributed Human-Autonomy Teaming Constellations	Dr. Nathan McNeese Clemson University Jamie Gorman Arizona State University
0940-1000		
1000-1010	BREAK	
1015-1040	Do War Memories Divide or Unite? Legacy of Historical Airstrikes on Anti-American Sentiment	Dr. Erin Lin Ohio State University
1040-1105	Trust in Human-Robot Interaction via Embodiment and Theory of Mind	Prof. Angelo Cangelosi University of Manchester Prof. Samuele Vinanzi Sheffield Hallam University
1105-1130	Long and De-Stabilizing Shadows: The Identity Shaping Power of Media Systems and Their Impact on Global Security	Dr. Tony Lemieux Georgia State University
1130-1155	Investigating Human Cognitive Bias in AI-Assisted Decision Making: The Case of Deception Assessment from Speech Data	Dr. Theodora Chaspari Texas A&M University
1200-1255	LUNCH	
1300-1325	Extending Theoretical Trust Modeling: A Field Study of Heterogeneous Human-Machine Teams Operating in Contexts with Real Users, Real Systems, and Real Consequences	Dr. Nhut Ho California State University, Northridge
1325-1350	Foreign Military Training: Building Effective Armed Forces in Weak States	Dr. William Reno Northwestern University
1350-1425	The Future of Human Governance: Assessing China's Ambitions to Proliferate AI-Enabled Authoritarianism	Dr. Jeannie Johnson Center for Anticipatory Intelligence, Utah State University
1445-1500	BREAK	
1500-1525	Ad Hoc Teamwork and Trust	Ms. Polyana Costas Informatics at PUC-Rio Dr. Alberto Sardinha INESC-ID and PUC-Rio
1525-1550	What's Missing? Innovating Interdisciplinary Methods for Hard-to-Reach Environments	Dr. Erika Frydenlund Old Dominion University

1550-1615	Modeling and Predicting Individual Scientific Impact	Dr. Dashun Wang Northwestern University
1615-1640	Science Genome: A Scholarly Graph Embedding Framework to Uncover the Fundamental Dynamics of Scientific Enterprise	Dr. Yong-Yeol Ahn Indiana University
1700	REVIEW ADJOURN	

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(All Times MDT) Agenda Day 5 Friday, August 18, 2023		
Time	Topic	Speaker
7:45	Zoomgov login	
0800-0825	The Collaboration in Outer Space, the Chinese Perspective	Ms. Nanou Yang Georgetown University
0825-0850	Jordan: A Case Study of Social Media Messaging and Conflict in the Middle East	Ms. Taghreed Alresheq Georgetown University
0850-0915	Addressing Resilience in the Western Alliance Against Fragmentation: Willingness to Sacrifice and the Spiritual Dimension of Intergroup Cooperation and Conflict	Prof. Angel Gomez Pembroke College Oxford
0915-0940	Examining Oxytocin as a Causal Mechanism for Long-Term Bonding Between Humans and Autonomy	Dr. Ewart de Visser George Mason University
0940-0955	BREAK	
0955-1020	Cognitive Security and its Mitigation: A Theoretical Framework, Supporting Neurophysiological Studies, and Interactive Deep Learning Models in Sparse and Dense Information Environments	Dr. Leanne Hirshfield University of Colorado Boulder
1020-1045	Africa's Scientific Landscape	Dr. David Backer University of Maryland
1045-1110	Robot Compromise	Dr. Gerald Matthews George Mason University
1110-1125	Learning Dynamics and Detecting Causal Pathways in Coupled Online-Offline Systems	Dr. P. Jeffrey Brantingham UCLA
1125-1210	LUNCH	
1210-1235	New AI/GPT meets Online (Dis)Trust: Defense at Scale for the Looming Online War	Prof. Neil Johnson George Washington University

1235-1250	Video Presentation: Trust as a Facilitator on the Uptake of Technology	Prof. Sónia de Costa Sousa EOARD
1250-1415	Discussion	
1415-1440	Interactions of Human and Machine Intelligence in Modern Economic Systems	Prof. Yun Kuen Cheung "Marco" Australian National University
1440-1455	BREAK	
1455-1520	Interim Research Performance Progress	Ms. Lara Gauder University of Buenos Aires
1520-1545	Efficient Simulation of Societies of Believable Interactive Agents	Dr. Arnav Jhala North Carolina State University
1545-1610	Climate Change Migration: Implications for Homeland Security	Dr. David Webber University of Maryland College Park
1700	REVIEW ADJOURN	