

FY21 NRP Research - FUNDED (pending approved research proposal, PI brief and PI annual training)

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Project (IREF) ID	IREF Title	PI FName	PI LName	Topic Sponsor ORG	TRB ORG
NPS-21-N167-A	Medical Supply Chain Impacts of Pandemic Preparedness and Response	Douglas	MacKinnon	CNSF	USFF
NPS-21-N095-A	Employing Machine Learning to Predict Student Aviator Performance (Continuation)	Magdi	Kamel	COMPACFLT	USFF
NPS-21-N009-A	Shore Based Search and Rescue (SAR) Using Medium Range (MR-UAS) with Extended Range and Endurance	Sherif	Michael	COMUSNAVSO/C4F	USFF
NPS-21-N298-A	Evaluating the Effectiveness of Blended Learning Strategies in Navy Training	Simona	Tick	N1	N1
NPS-21-N299-A	Mobile Learning Technology: Assessment and Recommendations	Kathryn	Aten	N1	N1
NPS-21-N315-A	Assessing Inclusion Behaviors and Impact of Inclusion within the Fleet	Jeremy	Arkes	N1	N1
NPS-21-N330-B	Nuclear Officer Bonus & Incentive Pay (NOBIP) and Retention	Judith	Hermis	N1	N1
NPS-21-N333-A	Evaluation of Leadership Traits for Future Warfare	Mark	Nissen	N1	N1
NPS-21-N351-A	Social Network Analysis on Connectedness, Destructive Behaviors, and Effects on Stress	Ruriko	Yoshida	N1	N1
NPS-21-J087-A	DMO Tactical Grid – Edge Processing, Mission Analytics, Officer Qualification (combines NPS-21-M187-B, NPS-21-N087-A, NPS-21-N372-A)	Randy	Maule	N2/N6, USFF, II MEF	N2/N6, USFF, MARFORCOM
NPS-21-N055-A	Global Search for High-Value Extended-Range Forecast Products	Eva	Regnier	N2/N6	N2/N6
NPS-21-N186-A	Subseasonal to Seasonal (S2S) Forecasting of Tropical Cyclones	Tom	Murphree	N2/N6	N2/N6
NPS-21-N342-A	Battle Management Aids: Leveraging Artificial Intelligence for Tactical Decisions	Bonnie	Johnson	N2/N6	N2/N6
NPS-21-N373-A	Business Intelligence for Expeditionary Advanced Base Operations (EABO) Shaping Flexible C2 Organizational Structure	Ying	Zhao	N2/N6	N2/N6
NPS-21-N174-A	Russian Views of Deterrence, Escalation, Coercion, and War	Mikhail	Tsyarkin	N3/N5	N3/N5
NPS-21-N177-A	Deterrence, Escalation, Coercion, and War in the Indo-Pacific	Christopher	Twomey	N3/N5	N3/N5
NPS-21-N177-B	Prospects for Deterrence, Escalation, Coercion and War in the Indo-Pacific (Continuation)	James	Russell	N3/N5	N3/N5
NPS-21-N265-A	Baltic and the Grey Zone: Challenge and Response of LCS basing	Donald	Abenheim	N3/N5	N3/N5
NPS-21-N290-A	The Battle of the Atlantic/Arctic in the Present and Future: Policy, Strategy and Operational Aspects for Crisis and War.	Donald	Abenheim	N3/N5	N3/N5
NPS-21-N030-A	A Cost Benefit Analysis of Transitioning the USN to a Single Fuel Type	Ryan	Sullivan	N4	N4
NPS-21-N057-A	Deep Analytics for Readiness Impacts of Underfunding Spares Backlogs	Ying	Zhao	N4	N4
NPS-21-N104-A	Warfare Analysis of Contested Logistics Agility	Jeffrey	Appleget	N4	N4
NPS-21-N104-B	Naval Logistic Network for The Great Power Competition and Operation in Contested Environment	Geraldo	Ferrer	N4	N4
NPS-21-N332-A	Blockchain and AI Technology in Support of Transparent Navy Logistics and Global Supply Chains (Continuation)	Walter	Kendall	N4	N4
NPS-21-N355-A	Evaluating Performance of Directional Sensors in Support of Detecting and Tracking Targets of Interest in Real Ocean Environments	Kevin	Smith	N4	N4
NPS-21-N031-A	Applying Design of Experiments to Improve Campaign Analysis with the Synthetic Theater Operations Research Model	Susan	Sanchez	N8	N8

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NPS-21-N115-A	Optimization of Engine Readiness Assessment Model (EDRAM)	Jefferson	Huang	N8	N8
NPS-21-N117-A	Optimization of Airframe Depot Readiness Assessment Model (ADRAM)	Douglas	MacKinnon	N8	N8
NPS-21-N173-A	VLS Missile Mix, Firing Policy, and Deterrence Against Red Salvos	Michael	Atkinson	N8	N8
NPS-21-N180-A	Warfighting Readiness PESTONI Study	Bryan	O'Halloran	N8	N8
NPS-21-N368-A	Optimizing Large Financial Portfolios	Jefferson	Huang	N8	N8
NPS-21-N109-A	It's a Trap! (of the 3-wire)	Robert	Semmens	N9	N9
NPS-21-N114-A	Modeling SIGINT	Scot	Miller	N9	N9
NPS-21-N210-B	Unmanned Carrier Concept in Support of DMO	Paul	Beery	N9	N9
NPS-21-N295-B	Integration of MDUSV into a Carrier/Expeditionary Strike Group	Brian	Wood	N9	N9
NPS-21-N359-A	Mine Warfare in Great Power Competition	Ross	Eldred	N9	N9
NPS-21-N348-A	MQ-25 Manned/Unmanned Teaming (MUM-T)	Scot	Miller	NAVAIR	ASN(RDA)
NPS-21-N014-A	COTS Microgrids for Sustainable Energy Integration and Resiliency	Alan	Howard	NAVFAC EEWC	N4
NPS-21-N135-A	Information Warfare Force and Systems Readiness Assessment	Randy	Maule	NAVIFOR	USFF
NPS-21-N118-A	Effects of Cold Spray Repairs on the Mechanical Properties of a Component	Andy	Nieto	NAVSEA	ASN(RDA)
NPS-21-N392-A	Commercial Batteries for Navy Use (Continuation)	Ira	Lewis	NAVSEA	ASN(RDA)
NPS-21-N260-A	Machine Learning (ML) for Signal Detection	Frank	Kragh	NAVSPECWARCOM	N2/N6
NPS-21-N105-C	Shoot, Move and Communicate – Increasing NSW Mission Effectiveness through AI/ML Augmented Unmanned Systems	Douglas	Horner	NAVSPECWARCOM	N7
NPS-21-N105-E	Bento Box—Modular/Recoverable Stratospheric Balloon Payload to Enable Artificial Intelligence for Small Unit Maneuver	Wenschel	Lan	NAVSPECWARCOM	N7
NPS-21-N105-F	Predicting Effectiveness of Human-Machine Teaming	Mollie	McGuire	NAVSPECWARCOM	N7
NPS-21-N108-A	Digital Mission Command in the Joint Force Operations	Arkady	Godin	NAVSPECWARCOM	N7
NPS-21-N113-B	Mapping and Analyzing NSW's Blue Network to Leverage Insights for a Competitive World	Sean	Everton	NAVSPECWARCOM	N7
NPS-21-N029-A	Assessment of Multi-spectral Sensor Based System for UAS Navigation in GPS-denied Environment	Oleg	Yakimenko	NAVSPECWARCOM	N9
NPS-21-N107-A	Operationalizing Naval Special Warfare (NSW)/Special Operations Forces (SOF) for the Countering Weapons of Mass Destruction (CWMD) Mission	Tristan	Volpe	NAVSPECWARCOM	N9
NPS-21-N317-A	Human-Machine Weapons Engagement Decisions: Systems Safety in Complex Decision Environments	Bonnie	Johnson	NAWCWD	ASN(RDA)
NPS-21-N387-A	Weapon Systems Safety When Deploying AI Technology	Valdis	Berzins	NAWCWD	ASN(RDA)
NPS-21-N281-A	Navy Expeditionary Additive Manufacturing (AM) Capability Integration	Douglas	Van Bossuyt	NECC	USFF
NPS-21-N091-A	Information Warfare in the High End Fight	Steven	Iatrou	NIWC Pacific	ASN(RDA)
NPS-21-N263-A	High Data Rate HF Communications for BFTN using OFDM and Spread Spectrum	Ric	Romero	NIWDC	USFF
NPS-21-N307-A	The Integration of Reliability, Availability, and Maintainability (RAM) into Model-Based Systems Engineering (MBSE)	Bryan	O'Halloran	NSWC, Crane	ASN(RDA)

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NPS-21-N282-A	Operational Analysis and CONOPS Definition for Next Generation Mine Warfare	Paul	Beery	NSWC, Panama City	ASN(RDA)
NPS-21-N213-A	Quantifying, Visualizing, and Tracking Capability Gaps	Magdi	Kamel	NWDC	USFF
NPS-21-N124-A	Leveraging Commercial and Other Innovation for Future USN Data, Information, and Intelligence Needs (NECC focus)	Arijit	Das	ONI	N2/N6
NPS-21-J218-A	Long Range Unmanned Surface Vessel (Combined Title TBD) (NPS-21-J218-A combines NPS-21-N218-A and NPS-21-M181-A)	Fotis	Papoulias	PEO C4I (PMW 760), MARFORCOM	ASN(RDA), MARFORCOM
NPS-21-N188-A	Analysis: How to Rapidly Bring Hypersonic Missile Capability to the Surface Fleet	Eugene	Paulo	SMWDC	USFF
NPS-21-N037-A	Cyber Warfighting System for Resilience and Response	Scott	Jasper	USFCC/C10F	N2/N6
NPS-21-J087-A	DMO Tactical Grid – Edge Processing, Mission Analytics, Officer Qualification (NPS-21-J087-A combines NPS-21-M187-B, NPS-21-N087-A, NPS-21-N372-A)	Randy	Maule	USFF, N2/N6, MARFORCOM	USFF, N2/N6, MARFORCOM
NPS-21-N264-A	Joint Fires Seabed Warfare	Shelley	Gallup	UWDC	USFF
NPS-21-M140-A	Analysis of Alternative UAV Technologies to Support Next-generation UAV	Anthony	Pollman	HQMC AVN	HQMC AVN
NPS-21-M035-A	Understanding Motivational Factors of Problematic Video Gaming in the USMC and USN	Panagiotis	Matsangas	HQMC M&RA	HQMC M&RA
NPS-21-M101-A	Ground Based Anti-Ship Missile Effectiveness	Chad	Seagren	HQMC P&R	HQMC P&R
NPS-21-M101-B	Optimal Munitions' Mix for USMC Mobile Anti-Ship Missiles Launcher	Moshe	Kress	HQMC P&R	HQMC P&R
NPS-21-M319-A	Cognitive Assistance with AI COAs - Radical Rethinking of HMT Mission Workflows & Decision Making as AI Assumes a Peer Relationship with Operators	Sharon	Runde	HQMC PP&O	HQMC PP&O
NPS-21-J087-A	DMO Tactical Grid – Edge Processing, Mission Analytics, Officer Qualification (NPS-21-J087-A combines NPS-21-M187-B, NPS-21-N087-A, NPS-21-N372-A)	Randy	Maule	II MEF, N2/N6, USFF	MARFORCOM N2/N6, USFF,
NPS-21-M159-A	An Analysis of Repairable Items Lead Times at USMC Wholesale ICP	Geraldo	Ferrer	LOGCOM	HQMC I&L
NPS-21-M079-B	Training Intelligent Red Team Agents Via Reinforcement Deep Learning	Marcus	Ballard	MARCORSYSCOM	MARCORSYSCOM
NPS-21-J218-A	Analysis of the Specifications and Capabilities for the Next-Generation LRUSV (Combined Title TBD)(NPS-21-J218-A combines NPS-21-N218-A and NPS-21-M181-A)	Fotis	Papoulias	MARFORCOM, PEO C4I (PMW 760)	MARFORCOM, ASN(RDA)
NPS-21-M182-B	Counter Unmanned Aerial Systems for the Navy and Marine Corps: Future Hardware Development Needs	Douglas	Van Bossuyt	MARFORCOM	MARFORCOM
NPS-21-M212-A	Performance Impacts on Unmanned Vehicle and Sensor Capabilities for Standoff Mine Detection in the Very Shallow Water, Surf Zone, and Beach Zone	Joseph	Klamo	MARFORCOM	MARFORCOM
NPS-21-M006-B	Automated Cyber Operations Data Mission Replay	Charles	Prince	MARFORCYBER	HQMC DCI
NPS-21-M133-A	An Integrated Framework to Develop and Analyze Concepts of Employment for Surface Connectors	Alejandro	Hernandez	MCMSO	HQMC CD&I
NPS-21-M238-A	Efficiently Using Families of Diverse Models to Better Inform Decision Makers in Objective and Repeatable Ways	Thomas	Lucas	MCMSO	HQMC CD&I
NPS-21-M038-A	How Marine Recruiter Quality and Other Factors Affect Enlistee Quality	Jeremy	Arkes	MCRC	HQMC M&RA