| Topic IREF ID | Title | PI Fname | PI LName | TS ORG | TRB ORG | Validation Status | Funding Status |
|---|---|---|---|---|---|---|---|
| | **FY20 NRP Research - FUNDED (pending approved research proposal, PI brief and PI annual training)** | | | | | | |
| | *Funded = funding is contingent upon a modification in project scope/budget.* | | | | | | |
| | **List sorted by TRB ORG > TS ORG > IREF ID.** | | | | | | |
| NPS-20-N017-A | Assessing the use of Plasma Discharges to Remove Coatings as a Strategy to Develop an Improved Ability to Maintain and Repair Naval Structures | Claudia | Luhrs | NAVSEA | ASN RDA | Requirement | Funded |
| NPS-20-N022-A | Corrosion Testing of Cold Sprayed Coatings and Deposits in Simulated Austere Marine Environments | Andy | Nieto | NAVSEA | ASN RDA | Requirement | Funded |
| NPS-20-N146-B | Commercial Batteries for Navy Use | Ira | Lewis | NAVSEA | ASN RDA | Requirement | Funded |
| NPS-20-N186-A | Decoupling the Engine from the Engine Room | Jarema | Didoszak | NAVSEA | ASN RDA | Requirement | Funded |
| NPS-20-N088-B | Incorporation of Operational Modeling Factors into | Fotis | Papoulias | ONR | ASN RDA | Requirement | Funded |
| NPS-20-N134-A | Railgun Capability on Amphibious Ships | Eugene | Paulo | ONR | ASN RDA | Requirement | Funded |
| NPS-20-N143-A | Effectiveness of Hypervelocity Gun Based Defense | Paul | Beery | ONR | ASN RDA | Requirement | Funded |
| NPS-20-N213-A | MDUSV ISR Mission Requirements, Equipment, and Force Structure | John | Audia | SPAWAR | ASN RDA | Requirement | Funded |
| NPS-20-M151-B | Shipboard Hydrogen Unmanned Aerial System | Anthony | Pollman | HQMC AVN | HQMC AVN | Requirement | Funded |
| NPS-20-M151-C | Removing Barriers to Hydrogen Use on Shipboard UAS | Alan | Howard | HQMC AVN | HQMC AVN | Requirement | Funded |
| NPS-20-M157-A | Objective Network for Operating with Resilience in a Contested Environment | Alex | Bordetsky | HQMC DCI | HQMC DCI | Requirement | Funded |
| NPS-20-M013-A | Modeling, Simulation, and Experimentation to Examine and Improve Combat Active Replacement Factors (CARF) | Alejandro | Hernandez | HQMC I&L | HQMC I&L | Requirement | Funded |
| NPS-20-M251-A | Data Collection and Analysis to Support a Limited | Robert | Koyak | HQMC M&RA | HQMC M&RA | Requirement | Funded |
| NPS-20-M009-B | Software Development Now and in the Cloud – A Case | Carl | Albing | HQMC P&R | HQMC P&R | Requirement | Funded |
| NPS-20-M163-A | Quantifying Enterprise Risk to Enable Portfolio Analyses | Kenneth | Doerr | HQMC P&R | HQMC P&R | Requirement | Funded |

| Topic IREF ID | Title | PI Fname | PI LName | TS ORG | TRB ORG | Validation Status | Funding Status |
|---|---|---|---|---|---|---|---|
| | FY20 NRP Research - FUNDED (pending approved research proposal, PI brief and PI annual training) | | | | | | |
| | *Funded = funding is contingent upon a modification in project scope/budget. | | | | | | |
| | List sorted by TRB ORG > TS ORG > IREF ID. | | | | | | |
| NPS-20-M236-A | Fire Support Coordination Cognitive Assistant (FSCn CA) for MAGTF Operations | Arkady | Godin | HQMC PP&O | HQMC PP&O | Requirement | *Funded* |
| NPS-20-M284-C | Context Modeling in Support of Non-lethal Weapon | Steven | Hall | JNLWD | HQMC PP&O | Requirement | Funded |
| NPS-20-M117-A | MARSOC SOF-MAGTF Capabilities Integrations Analysis and Operational Modeling (Continuation) | Robert | Burks | MARSOC | HQMC PP&O | Requirement | Funded |
| NPS-20-M124-A | Evaluating and Improving the Representation of | Curtis | Blais | MCMSO | MCCDC | Requirement | Funded |
| NPS-20-M129-A | Improving Physiological Modeling in Combat Simulations | Curtis | Blais | MCMSO | MCCDC | Requirement | Funded |
| NPS-20-M046-A | Tactical Cybersecurity Decision Matrix for COTS UAS | Douglas | Van Bossuyt | MCWL | MCCDC | Requirement | Funded |
| NPS-20-M183-A | MCWL Innovative Employment of the F35B in | Jeffrey | Kline | MCWL | MCCDC | Requirement | Funded |
| NPS-20-M041-B | Supply & Maintenance Predictive Modeling and | Ying | Zhao | MCSC | MCSC | Requirement | Funded |
| NPS-20-N133-A | Building Connectedness: Managing Tensions Between Individual Participation and Organizational Control in Online Workplace Communities | Kathryn | Aten | N1 | N1 | Requirement | Funded |
| NPS-20-N191-B | Social Network Analysis, Connectedness, Intrinsic | Gail | Thomas | N1 | N1 | Requirement | Funded |
| NPS-20-N333-A | Inference on Missing Information on a Social Network | Ruriko | Yoshida | N1 | N1 | Requirement | Funded |
| NPS-20-N338-A | The Effects of Minority/Female Role Models and Diversity on Retention | Jeremy | Arkes | N1 | N1 | Requirement | Funded |
| NPS-20-N351-A | Embedding a Formal Knowledge Management (KM) | Shelley | Gallup | N1 | N1 | Requirement | Funded |
| NPS-20-N319-A | Blended Training Environment | Simona | Tick | NETC | N1 | Requirement | Funded |
| NPS-20-N326-A | Reliable Learning without Persistent Network Access | Randy | Maule | NETC | N1 | Requirement | Funded |
| NPS-20-N038-A | Adaptive Data Flow | Randy | Maule | N2/N6 | N2/N6 | Requirement | Funded |
| NPS-20-N069-A | Testing and Refinement of Bayesian Data Analytics for | Wendell | Nuss | N2/N6 | N2/N6 | Requirement | Funded |
| NPS-20-N164-A | Shipboard Deployment Testing of Light Fidelity (LiFi) with Power Line Communications (PLC) | Weilian | Su | N2/N6 | N2/N6 | Requirement | Funded |
| NPS-20-N313-A | Data Strategies in Support of the Naval Operational | Arkady | Godin | N2/N6 | N2/N6 | Requirement | *Funded* |

| Topic IREF ID | Title | PI Fname | PI LName | TS ORG | TRB ORG | Validation Status | Funding Status |
|---|---|---|---|---|---|---|---|
| | **FY20 NRP Research - FUNDED (pending approved research proposal, PI brief and PI annual training)** | | | | | | |
| | *Funded = funding is contingent upon a modification in project scope/budget.* | | | | | | |
| | **List sorted by TRB ORG > TS ORG > IREF ID.** | | | | | | |
| NPS-20-N349-B | Leveraging Blockchain as an Autonomous Unclass Software Distribution Support | Peter | Ateshian | N2/N6 | N2/N6 | Requirement | Funded |
| NPS-20-N214-A | Cyber Warfighting System for Resilience and Response | Scott | Jasper | USFCC/C10F | N2/N6 | Requirement | Funded |
| NPS-20-N238-A / | Using Virtual Environments and 3D to Assess Issues | Scott/Eugene | Miller/Paulo | N2/N6, N9 | N2/N6, N9 | Requirement | *Funded** |
| NPS-20-N068-A | Great Power Competition and Strategic Deterrence – | Mikhail | Tsypkin | N3/N5 | N3/N5 | Requirement | *Funded** |
| NPS-20-N084-A | Mitigating the Impact of China's BRI on U.S. Interests and Access in the Indo-Pacific | Michael | Glosny | N3/N5 | N3/N5 | Requirement | *Funded** |
| NPS-20-N269-A | 21st Century Naval Revolutions | James | Russell | N3/N5 | N3/N5 | Requirement | Funded |
| NPS-20-N271-A | Russian Federation A2AD Posture: Global Impact on USN | Donald | Abenheim | N3/N5 | N3/N5 | Requirement | Funded |
| NPS-20-N307-A | China's Strategic Modernization in a Post-INF Treaty World | Michael | Glosny | N3/N5 | N3/N5 | Requirement | Funded |
| NPS-20-N005-A | New concepts for In Theater Ship Repair | Simon | Veronneau | N4 | N4 | Requirement | Funded |
| NPS-20-N215-A | Applying Big Data Analytics to Improve Naval Aviation Sustainment | Douglas | MacKinnon | N4 | N4 | Requirement | Funded |
| NPS-20-N225-B | NAVEUR implications of the current EUCOM's POL Capability & Capacity | Geraldo | Ferrer | N4 | N4 | Requirement | Funded |
| NPS-20-N247-A | Optimal Pre-Positioning of Bulk Fuel Resources | Jefferson | Huang | N4 | N4 | Requirement | Funded |
| NPS-20-N250-A | Sustaining our Submarine Forces for Phase 0 and Phase II in a Contested Environment Against Peer and Near Peer Countries | Simon | Veronneau | N4 | N4 | Requirement | Funded |
| NPS-20-N290-B | Navy Additive Manufacturing Afloat Capability Analysis | Douglas | Van Bossuyt | N4 | N4 | Requirement | Funded |
| NPS-20-N362-A | Blockchain Technology in Support of Navy Logistics and Global Supply Chains | Walter | Kendall | N4 | N4 | Requirement | Funded |
| NPS-20-N362-B | Reconditioning Blockchain to Enable Global Supply Chain Assurance | Britta | Hale | N4 | N4 | Requirement | Funded |
| NPS-20-N033-A | Network Traffic Covert Channel Detection and | John | Monaco | N8 | N8 | Requirement | Funded |
| NPS-20-N033-B | Identifying Anomalous Network Flow Activity Using Cloud Honeypots | Neil | Rowe | N8 | N8 | Requirement | Funded |
| NPS-20-N033-D | Machine Learning Techniques for Identifying Anomalous Network Traffic | Victor | Garza | N8 | N8 | Requirement | Funded |

| Topic IREF ID | Title | PI Fname | PI LName | TS ORG | TRB ORG | Validation Status | Funding Status |
|---|---|---|---|---|---|---|---|
| | **FY20 NRP Research - FUNDED (pending approved research proposal, PI brief and PI annual training)** | | | | | | |
| | *Funded = funding is contingent upon a modification in project scope/budget. List sorted by TRB ORG > TS ORG > IREF ID.* | | | | | | |
| NPS-20-N052-A | Naval Aviation Readiness Performance Pricing Model Integration (Phase 2) (Continuation) | Douglas | MacKinnon | N8 | N8 | Requirement | Funded |
| NPS-20-N053-A | Maritime Readiness Performance/Pricing Model | Paul | Beery | N8 | N8 | Requirement | Funded |
| NPS-20-N109-B | Development Time of Zero-Day Cyber Exploits in Support of Offensive Cyber Operations | Gurminder | Singh | N8 | N8 | Requirement | Funded |
| NPS-20-N152-A | Optimizing Distributed, Collaborative MCM Missions with Unmanned Maritime Vehicles | Sean | Kragelund | N8 | N8 | Requirement | *Funded** |
| NPS-20-N101-A | Optimizing Naval TACAIR Training & Readiness Requirements Generation | Robert | Semmens | N9 | N9 | Requirement | Funded |
| NPS-20-N113-B | Modeling and Simulation of Naval Directed Energy Weapons Engagements | Bonnie | Johnson | N9 | N9 | Requirement | Funded |
| NPS-20-N137-A | Impact on Naval Operations of Adopting JP5 as Single Fuel | Geraldo | Ferrer | N9 | N9 | Requirement | Funded |
| NPS-20-N190-A | Added Capability in RASP | Alan | Howard | N9 | N9 | Requirement | Funded |
| NPS-20-N208-A | Modeling Trust and Risk in USV operations | Moshe | Kress | N9 | N9 | Requirement | Funded |
| NPS-20-N303-A | Human-Unmanned Teaming in Distributed Maritime Operations (Continuation) | Mark | Nissen | N9 | N9 | Requirement | Funded |
| NPS-20-N342-A | Modeling the Operational Value of Data Fusion on ASW and Other Missions | Scot | Miller | N9 | N9 | Requirement | Funded |
| NPS-20-N096-A | NSW Lessons Learned Improvment (Continuation) | Shelley | Gallup | NAVSPEC WARCOM | N9 | Requirement | Funded |
| NPS-20-N159-A | Non-Standard Navigational Methods for Unmanned Aerial Vehicles (UAV) | Sean | Kragelund | NAVSPEC WARCOM | N9 | Requirement | Funded |
| NPS-20-N159-B | Integrated IMU/EO-Sensor Navigation System for Aerial Vehicles | Oleg | Yakimenko | NAVSPEC WARCOM | N9 | Requirement | Funded |
| NPS-20-N229-A | Simulation Modeling of FRC I Level CASS Bench Operations | Susan | Aros | CNAF | USFF | Requirement | Funded |
| NPS-20-N233-A | Augmented Reality Use During Aircraft Moves Decrease | Meghan | Kennedy | CNAF | USFF | Requirement | Funded |
| NPS-20-N071-A | IPCL Gap Analysis and Visualization | Magdi | Kamel | CNSF | USFF | Requirement | Funded |

| Topic IREF ID | Title | PI Fname | PI LName | TS ORG | TRB ORG | Validation Status | Funding Status |
|---|---|---|---|---|---|---|---|
| | **FY20 NRP Research - FUNDED (pending approved research proposal, PI brief and PI annual training)** | | | | | | |
| | *Funded = funding is contingent upon a modification in project scope/budget. List sorted by TRB ORG > TS ORG > IREF ID. | | | | | | |
| NPS-20-N279-A | Assessment of USV Certification Requirements for COLREGS Compliance, Anti-Tamper, Environmental and General Safety | Brian | Wood | CNSF | USFF | Requirement | Funded |
| NPS-20-N179-A | Development and Validation of System Engineering Based T&E Methodology for Operational Demonstration of Autonomous Undersea Vehicles | Donald | Brutzman | COMOPTEVFOR | USFF | Requirement | Funded |
| NPS-20-N309-A | Employing Machine Learning to Predict Student Aviator Performance | Magdi | Kamel | COMPACFLT | USFF | Requirement | Funded |
| NPS-20-N309-B | Analytics of Aviator Training Performance | Neil | Rowe | COMPACFLT | USFF | Requirement | Funded |
| NPS-20-N063-A | MEMS Acoustic Sensor for UAV Detection and | Fabio | Alves | COMSUBPAC | USFF | Requirement | Funded |
| NPS-20-N064-A | Implosive Seabed Effector Performance | Jarema | Didoszak | COMSUBPAC | USFF | Requirement | Funded |
| NPS-20-N076-A | Structural Analysis of 3D Printed Polymeric Materials and Associated Orientation-Dependent Mechanical Properties | Andy | Nieto | COMSUBPAC | USFF | Requirement | Funded |
| NPS-20-N298-A | Assessment of Ghost Swimmer Performance in Shallow Water with Marine Growth and the Surf Zone | Joseph | Klamo | NECC | USFF | Requirement | Funded |
| NPS-20-N059-B | Teach RADARs to Communicate | Ric | Romero | NIWDC | USFF | Requirement | Funded |
| NPS-20-N072-A | 5G Cellular Communications for Flight Deck Radios to Reduce Electromagnetic Signature | Valdis | Berzins | NIWDC | USFF | Requirement | Funded |