

Hackyoung BAE

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EMPLOYMENT

Associate Professor(2024.3.-present) Department of Strategic Studies, Korea National Defense University.

Director of Center for Military Strategy Study(2023.7-present) Research Institution for National Security Affairs, Korea National Defense University.

Assistant Professor(2021.3.-2024.3.) Department of Military Strategy, Korea National Defense University.

Naval Officer(2001-present), Commander(active), Republic of Korea Navy.



EDUCATION

ACADEMIC EDUCATION

Ph.D. (2014). Department of Political Science, Florida State University

M.S. (2011). Department of Political Science, Florida State University

M.A. (2007). Department of International Relation, Korea National Defense University

B.S. (2001). Department of Electrical Engineering, Korea Naval Academy

(with Honors and Distinction)

MILITARY EDUCATION

Joint Staff Course at Korea Joint Forces Military University, Republic of Korea (2016)

Naval War Fighting Course at Korea Naval War College, Republic of Korea (2007)

Practical Training Course at U.S. 7th Fleet in Japan, U.S. Navy (2002)

Exchange Student Japanese National Defense Academy, Japan (1999)

PROFESSIONAL SERVICE

MANUSCRIPT REVIEWER

Maritime Security, Journal of The Korea Naval Academy Maritime Institute, Journal of National Defense Studies, North Korean Studies Review, National Strategy, Review of Korean Military Studies, Korean journal of Military Affairs, Journal of Peace and Unification

OTHER PROFESSIONAL ACTIVITIES

The Korean Journal of Security Affairs, Editorial Board Member, July 2023-Present

RESEARCH INTERESTS

Future Warfare, Autonomous Weapon System, Artificial Intelligence, Big Data
Maritime Strategy, Maritime Conflict, Maritime Boundary Delimitation Negotiation
Naval Force Development, Naval Planning Strategy
Bargaining theory
Interstate Rivalry theory

TACHING(Graduate School)

Maritime Strategy(2021 fall)
Future Warfare(2022 Spring, 2023 Spring, 2024 Spring)
Military Science Methodology(2022 Fall, 2023 Fall, 2024 Fall)
Strategy Theory(2023 Fall)

TACHING(Security Course for High level military officers and Civil Servants)

Maritime Strategy(2022, 2023)
Future Warfare(2024)

WORKING PAPERS

“Space Force Development for Maritime Domain Awareness”

BOOK

WAR AND CONFLCIT MANAGEMENT BETWEEN THE TWO KOREAS, LAMBERT ACADEMIC PUBLISHING, 2015.

BOOK CHAPTER

Maritime Space Force in the Space Era, 2022., 『우주전장시대 해양 우주력』, 박영사, 2022.

“Navy Cooperation and East Asia Interstate Relations”, *21st Century Maritime Security and International Relations*, 2017. “해군협력으로 본 동아시아 국제관계”, 『21세기 해양안보와 국제관계』, 북코리아, 2017.

PEER-REVIEWED PUBLICATIONS

“Direction to Advance Methodologies for Future Space Domain Defense Strategy Development: A Focus on Modeling and Simulation Applications”, *Journal of the KNST*, 2024.6. “미래 우주 영역의 국방 전략 개발 방법론 발전 방향: M&S 적용을 중심으로, 『한국해군과학기술학회』, 2024.6.

“Study on the Policy determinants of Japan’s Space Security Policy : The application of Allison Model”

Japanese Cultural Studies, 2024.6. (In Korean) “일본의 우주 안보정책 결정 요인에 관한 연구 : 엘리슨 모형의 적용을 중심으로”, 『日本文化研究』, 2024.6.

“A Study on Space Force Development for Maritime Domain Awareness” *Korea Maritime Security Review*, 2024.6. (In Korean) “위성정보를 활용한 해양영역인식(MDA) 발전 방향” 『한국해양안보논총』 2024.6.

“Capability for China's intervention by sea in the total war on the Korean Peninsula in the 2049 By using scenario planning methodology”, *The Korean Journal of Defense Analysis*, Vol. 36, No. 1, March 2024, 75 - 102, 2024. (SSCI)

“A Study on Force Development of “AI-based Integrated Manned & Unmanned Combat System”, *Journal of The Korea Association of Defense Industry Studies*, 2023 (In Korean) “인공지능 기반 유·무인 복합전투체계 전력발전 방향”, 『한국방위산업학회지』, 2023.

“A Reflection on Research Methodologies in Military Science in the Era of Generative Artificial Intelligence”, *Review of Korean Military Studies*, 2023. “생성형 인공지능 시대의 군사학 연구방법론 고찰” 『한국군사학논총』 제12집 제4권(2023년 12월 31일)

“The Ukrainian War and Future Warfare : Implications for the Indo-Pacific Region and the Korean Peninsula”, *Journal of National Defense Studies*, 2023 (In Korean) “우크라이나 전쟁과 미래전: 인도-태평양 지역 및 한반도에 대한 함의” 『국방연구』, 2023

“A Study on Development of Defense Acquisition System for Application of Leading Technology(Focusing on Theory of Demand push/pull and Tech push/pull)”, *Journal of The Korea Association of Defense Industry Studies*, 2022.9 (In Korean) “선도 기술 적용을 위한 한국군 무기체계 소요기획 발전방향 연구(기술주도, 기술견인, 수요주도, 수요견인을 중심으로)”, 『한국방위산업학회지』, 2022..

“Geopolitical Competition at Sea between the U.S. and China, and South Korea’s Security Strategy” *Cultural Interaction Studies of Sea Port Cities*, “미·중간의 지정학적 해양패권경쟁과 한국의 안보전략”, 『해항도시문화교섭학』, 2022.

“A Study on the Operational Concept of K-Ghost Fleet and Force Development” *Journal of The Korea Association of Defense Industry Studies*, 2022.9 (In Korean) “한국형 유령함대(무인원격함대) 운용개념 및 전력 발전방향”, 『한국방위산업학회지』, 2022.[HWP]

“A Study on the Utilization of the Maritime-based SDA(Space Domain Awareness) System for the Development of National Space Power” *Journal of The Korea Association of Defense Industry Studies*, 2022.9 (In Korean) “국방우주력 발전을 위한 해상기반 우주영역인식체계 활용방안 연구”, 『한국방위산업학회지』, 2022.

“Naval Force Development in Space Era” *Journal of National Defense Studies*, 2021.6 (In Korean) “우주전장 시대의 해군력 발전방향” 『국방연구』, 2021.6.

“A Study on the Smart Battleship Development” *Journal of The Korea Association of Defense Industry Studies*, 2021. (In Korean) “스마트 군함 무선네트워크 구축 발전방향: 시범사업 결과를 중심으로” 『한국방위산업학회지』, 2021.

“The Response to Increased China’s Maritime Activities at the Sea” *Journal of National Defense Studies*, 2020.9 (In Korean) “중국해양세력의 서해상 활동증가와 우리의 대응방향”『국방연구』, 2020.9

“A Study on the Improvement of Naval Force as New Way of Force Development” *Journal of The Korea Association of Defense Industry Studies*, 2020 (In Korean) “함정 성능개량을 통한 전력 발전 방안 연구”『한국방위산업학회지』, 2020.

“Study on Combat Development to offset the North Korea’s SLBM”, *Journal of National Defense Studies*, 2016.12. (In Korean) “북한 SLBM 상쇄(offset) 방안: 전력건설을 중심으로”『국방연구』, 2016.12.

Non-PEER-REVIEWED PUBLICATIONS

“Security Situation Outlook in 2024: Will the Two Wars Conclude in 2024?” , *RINSA Forum*, 2024.

"The Effectiveness of the Maritime Launch System for South Korea's Space Power", *Journal of Korean Space Association for National Defense*, 2023. “우주강국 도약을 위한 해상 발사체계 효용성 고찰”, 『한국국방우주학회지』, 2023.

"Military Scenario and Korea's Response During the Taiwan Contingency", *JPI Peacenet*, 2023. “대만사태 시 군사적 시나리오와 한국의 대응방향”『Jpi Peacenet』, 2023.

“Hamas’ Low-Cost Weapon Systems in Multi-Domain Multi-Layered Attacks: Implication to Korea Peninsular”, *Rinsa Forum*, 2023.

“Hawaii: The Frontline and Collaboration Hub of the U.S. Indo-Pacific Strategy” *Rinsa Forum*, 2023.

“The Credible Mechanism for a U.S. Extended Deterrence Commitment” *Rinsa Forum*, 2022.

“The Great Rivalry in the Indo-Pacific The U.S.N.'s Return to Mahanism” *Rinsa Forum*, 2021.

“Study on How to Apply 4th Industrial Revolution Technology for the Naval Development Based on Analysis of Korean Peninsula Security Environment”, with Beungjun Yu, *Journal of the Korea Naval Academy maritime Institute*, 2019. (In Korean) “한반도 전략환경 분석을 통한 4차 산업혁명 기술의 해군 적용 방향”, 『해양연구논총』, 2019.

“Recent Force Development of Major States and its Implications”, *Maritime Security*, 2019. (In Korean) “최근 세계 주요 국가 군사력 발전과 함의”, 해양전략, 2019.

“Quantifying Naval Power and Its Implications”, *Strategy 21*, 2014. (In English)

GOVERNMENT PROJECTS

『Research on the Force Development of Surveillance and Reconnaissance Satellites for the Navy MDA』, Naval Headquarters Information Planning Staff Department, 2023. 『해군 MDA 발전을 위한 감시정찰 위성 발전방향 연구』, 해군본부 기참부, 2024.

『'24 Study on the Force Development of Sea-Based Assault Operations in Strengthening Joint Capabilities』,

Naval Headquarters Information Planning Staff Department, 2023. 『'24년 합동성 강화 차원에서 해상기반 강습작전 발전방향 연구』, 해군본부 기참부, 2024.

『Understanding Nuclear WMD Strategy』, Korea National Defense University, 2024. 『핵WMD 전략의 이해』, 국방대 교수부, 2024.

『International Joint Research: A Study on the Difference Between Defense Innovation and Actual Military Adaptation Using AI Technology』, Research Institute for National Security Affairs, 2024. 『국제공동연구 : AI 기술을 적용한 국방혁신과 실제 군사적 활용의 차이에 관한 연구』, 국방대 안보문제연구소, 2024.

『2040 Future Navy Unit Structure Development Plan Study』, Naval Headquarters Information Planning Staff Department, 2023. 『2040년 미래 해군 부대구조 발전방안 연구』, 해군본부 기획관리참모부, 2023.

『2040 Future Navy Unit Structure Development Plan Study』, Naval Headquarters Information Planning Staff Department, 2023. 『2040년 미래 해군 부대구조 발전방안 연구』, 해군본부 기획관리참모부, 2023.

『Intelligence Required Capability Survey and Analysis Study for Building a Navy AI Development Foundation』, Naval Headquarters Information Planning Staff Department, 2023. 『해군 AI 발전 기반구축을 위한 지능화 요구능력 조사·분석 연구』, 해군본부 정보화기획참모부, 2023.

『2022 East Asia Strategic Assessment』, Arms Control Division, Ministry of National Defense, 2022. 『2022년 동아시아 전략평가』, 국방부 군비통제과, 2022.

『South Korea's response to gray area strategy』, Basic Policy Division, Ministry of National Defense, 2022. 『회색지대 전략에 대비한 대응방향 연구』, 국방부 기본정책과, 2022.

『Calculation of required troops to meet military future Capability in the 2040s』, Ministry of National Defense Reform Office, 2022. 『2040년대 군사적 요구능력에 부합하는 소요병력 산출』, 국방부 개혁실, 2022.

『Study on development plans for future naval force structure in line with changes in defense environment (focusing on analysis of foreign military force structure and operational status)』, Naval Headquarters Information Operations Staff Department, 2022. 『국방환경 변화에 부합한 미래 해군 병력구조 발전방안 연구 (외국군 병력구조 및 운영현황 분석을 중심으로)』, 해군본부 정보작전참모부, 2022.

『Troop Saving Smart Battleship Operation Analysis Study』, Naval Headquarters Planning and Management Staff Department, 2022. 『병력절감형 Smart Battleship 운용분석 연구』, 해군본부 기획관리참모부, 2022.

『Study on Oceanbased Space Operations Concept and Force Development Direction』, Naval Headquarters I

Information Planning Staff Department, 2021. 『해양기반 우주작전 개념 및 전력발전 방향연구』, 해군본부
정보화기획참모부, 2021.

MILITARY EXPERIENCES

EXECUTIVE OFFICER (2019-2020) REPUBLIC OF KOREA NAVY, DDH-class destroyer ROKS *Yngmanchun*

JOINT STRATEGY CAPABILITY PLANNING OFFICER (2017-2019) REPUBLIC OF KOREA NAVY,
NAVY HEADQUARTER, MILITARY STRATEGY PLANNING BRANCH

EXECUTIVE OFFICER (2014-2016) REPUBLIC OF KOREA NAVY, Salvage Ship ROKS *Tongyoung*

COMMANDING OFFICER (2008-2009) REPUBLIC OF KOREA NAVY, PKM(Patrol Killer Medium)-
292

DOCTRINE and PUBLICATION OFFICER (2007-2008) REPUBLIC OF KOREA NAVY, ROK FLEET
COMMAND, TRAINING BRANCH

ANTI-SUBMARINE WARFARE OFFICER (2004-2005) REPUBLIC OF KOREA NAVY, DDH-class
destroyer ROKS *Ulchimdok*

INSTRUCTOR (2003-2004) REPUBLIC OF KOREA NAVY, NAVAL ACADEMY, OCS
DEPARTMENT

EXECUTIVE OFFICER (2002-2003) REPUBLIC OF KOREA NAVY, PKM(Patrol Killer Medium)-339

COMMUNICATION OFFICER (2001-2002) REPUBLIC OF KOREA NAVY, Frigate-959 ROKS *Busan*

CERTIFICATES

Certificate of Life Guard for Swimming Pool (2022)

Certificate of Licensed Maritime Related Administrative Agent (2021)

Certificate of Licensed Administrative Agent (2020)

Certificate of Competence in Translation (2015)

Preparing for Future Professional Certificate (2014)

Preparing for Future Faculty Certificate (2014)

Taekwondo Third Black Belt (2003)

PADI OPEN SCUBER DIVER (2001)

Life Guard Instructor (Korean Red Cross) (1999)

Life Guard (Korean Red Cross) (1997)

MISCELLANEOUS

Software Proficiency: Wordpress, Stata, R, and MS Office.

Computer Skills: assembling, repairing, and network-building.

REFERENCES

Mark Souva

Florida State University

msouva@fsu.edu

Dale L. Smith

Florida State University

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