

Fall Naval AI Summit

*The Naval Postgraduate School
& Office of Naval Research*



Hosted by the US Naval Academy

Col(ret) Randy Pugh and Dr. Jack Long
Annapolis, MD
23-26 September 2024

Current as of: 20 Sep 2024



Program Overview



Purpose

The Navy and Marine Corps have a rapidly growing community of people working on Artificial Intelligence initiatives. These include a few driven top-down by the service headquarters but they are dwarfed by explosive growth in bottom-up efforts being devised across the Enterprise. The Naval AI Summit builds the defense AI ecosystem by providing an opportunity for AI practitioners from across DOD, academia, and industry to gather, share their work and experiences, and build connections for future collaboration

Objectives

The principal objective of the 2024 Fall Naval AI Summit is to facilitate Navy and Marine Corps cross-communication and the sharing of information, insights, and resources to the benefit of Naval AI practitioners and the overall DON-wide enterprise. The specific focus of this Summit is to better understand the use cases, solution ideas, successes, and challenges of those working to leverage AI for tactical purpose and advantage. As with the last summit in Quantico, VA, this summit's proximity to the National Capital Region provides an excellent opportunity for senior leader engagement across the Navy, USMC, Joint Services, DOD, academia, and industry

Key Topics

- Vision for AI in the Naval Services
- AI at the leadership level
- Bottom-up driven AI
- Navy AI Task Force initiatives & updates
- Building AI capable warfighters
 - At the US Naval Academy
 - At the Naval Postgraduate School
- AI across the DOD:
 - XVIII Airborne Corps
 - Department of the Air Force
 - US Cyber Command
 - US Strategic Command
- Industry tools that can support the DoD
- Emerging threats
- Using AI to accomplish the mission:
 - Wargaming
 - Planning tools
 - AI ISO mission execution
 - Visualization
 - Aviation decision support
- AI use in the Ruso-Ukrainian War

End State

A Naval AI community connected and coordinated across all domains and commands collaboratively working actions that tackle some of the critical challenges impacting AI adoption across the Fleet



Fall 2024 AI Summit – Agenda



Day	Monday 23 September	Tuesday 24 September	Wednesday 25 September	Thursday 26 September
Morning	<ul style="list-style-type: none"> AI for Knuckledraggers 	<ul style="list-style-type: none"> USNA welcome (10m) Overview of AI (50m) Leadership dashboards (30m) The history of Maven (30m) CAIMANS (40m) 	<ul style="list-style-type: none"> SigInt AI (105 m) GenAI Challenges (25m) AI2C Overview (25m) Alfred (25m) 	<ul style="list-style-type: none"> IRIS and CITADEL (40m) CyberCom AI Task Force (40m) Raven Sentry (30m) Iron Bounce (30m)
Lunch	Open 1130-1300	Open 1145-1300	Open 1130-1300	Open 1120-1250
Afternoon	<ul style="list-style-type: none"> AI for Knuckledraggers 	<ul style="list-style-type: none"> PNPS remarks (10m) Dead Center (40m) CamoGPT (40m) CDAO USNA Interns (30m) LabelLogic / Ignition (30m) Report Modernization (30m) 	<ul style="list-style-type: none"> BMS (30m) Pioneer (30m) Dreamcatcher (30m) Harbinger (30m) Battering Ram (30m) USNA DS/AI Internships (30m) 	<ul style="list-style-type: none"> Kraken (35m) Emerging and Disruptive Threats (35m) TF Hopper (30m) ADAPT (25m) SMDII / PASS (25m) GenAI for Navy 2ks (30m)
Evening	<i>No host social at Fran O'Brien's</i>	<i>No host social at McGarvey's</i>	<i>No host social at The Choptank</i>	<i>Open / Travel</i>

Legend



Unclassified | **Classified** | Tentative



Fall AI Summit – Monday | 23 Sep

Legend
Unclassified | Classified



Timing	Topic	Lead / Speaker	Description
0800-1130 (210 min)	<i>AI for Knuckledraggers</i>	<i>Dr. Jack Long</i> 	<i>First half of AI course. Breaks included in timing</i>
1130-1300 (90 min)	<i>Lunch</i>		
1300-1630 (210 min)	<i>AI for Knuckledraggers</i>	<i>Dr. Jack Long</i> 	<i>Second half of AI course. Breaks included in timing</i>
Evening	<i>No Host Social</i>	<i>Fran O'Brien's</i>	<i>Social event at legendary Annapolis watering hole</i>

 Denotes Confirmed Speaker



Fall AI Summit – Tuesday | 24 Sep

Legend
Unclassified | Classified



Timing	Topic	Lead / Speaker		Description
0830-0840 (10 min)	USNA Welcome	VADM Yvette Davids	✔	Opening remarks from our host, the Superintendent of the U.S. Naval Academy
0840-0930 (50 min)	Overview of AI	Dr. Jack Long	✔	A view of what AI could look like in the future, welcoming remarks, and overview of Summit agenda
0930-1015 (30 min)	Leadership dashboards	Mr. Jim Raimondo, HQE	✔	Overview and demo of CNO Executive Metrics Dashboard + insights of SECNAV and CMC visualizations
1015-1035 (20 min)	Networking break			
1035-1105 (30 min)	The history of Maven	Col(ret) Drew Cukor	✔	The history of the cross-functional algorithmic warfare team
1105-1145 (40 min)	CAIMANS	LtCol Scotty Black, PhD	✔	Overview of CAIMANS AI project and plans for the coming years
1145-1300 (75 min)	Lunch			
1300-1310 (10 min)	Welcome from PNPS	VADM(ret) Ann Rondeau	✔	A message from President Ann Rondeau on NPS efforts in the realm of AI
1310-1350 (40 min)	Dead Center	Dr. Chris Gifford / Mr. Chris Haughton	✔	A day in the life of a Marine with Dead Center / Agile Model Refinement
1350-1430 (40 min)	CamoGPT	Maj Ryan Keller	✔	Overview and demo of camoGPT
1430-1500 (30 min)	Networking break			
1500-1530 (30 min)	CDAO Summer Interns	LtCol Pedro Ortiz, PhD	✔	The value CDAO found by hosting US Naval Academy midshipmen as summer interns
1530-1600 (30 min)	Label Logic / Ignition	Mr. Terry Schoof / Ms. Maria Bugey	✔	Demo of LLM tool to assist with security classification recommend portion markings
1600-1630 (30 min)	Report modernization	Mr. Luis Velazquez	✔	Report generation / modernization effort to migrate legacy databases to IAPS products
Evening	No host social	McGarvey's		No host social at another of Annapolis's legendary waterholes

✔ Denotes Confirmed Speaker



Fall AI Summit – Wednesday | 25 Sep

Legend
Unclassified | Classified



Timing	Topic	Lead / Speaker	Description
0800-0945 (105 min)	SigInt AI	Ms. Georgianna Campbell ✓	<i>Discussion on opportunities for AI/ML applications to SIGINT and overview of operational requirements and exemplars</i>
0945-1015 (30 min)	Networking break		
1015-1040 (25 min)	GenAI challenges	Dr. Celso De Melo ✓	<i>GenAI research challenges (for scalable cross-echelon command and control)</i>
1040-1105 (25 min)	AI2C overview	Maj Ryan Keller ✓	<i>Overview of Army AI Integration Center in Pittsburgh</i>
1105-1130 (25 min)	Alfred	LtCol Gavin "Toto" Robillard ✓	<i>DC – Aviation's vision for leveraging AI across all domains of naval aviation</i>
1130-1300 (90 min)	Lunch		
1300-1330 (30 min)	BMS	Mr. Gary Shearer ✓	<i>NSWCDD Battle Management System (BMS) Overview</i>
1330-1400 (30 min)	Pioneer	Mr. Ben Goldman ✓	<i>Development and deployment of capabilities for facilitating Test & Evaluation (T&E) of AI and Autonomy</i>
1400-1430 (30 min)	Dreamcatcher	Dr. David Phillips ✓	<i>Log-Ops planning tool in support of Naval missions</i>
1430-1500 (30 min)	Networking break		
1500-1530 (30 min)	Task Force Turing update	CAPT Jeff Anderson ✓	<i>Overview of recent efforts from Task Force Turing</i>
1530-1600 (30 min)	Battering Ram	Dr. Jimmy "Rev" Jones ✓	<i>Air Force Battering Ram overview</i>
1600-1630 (30 min)	USNA summer internships	CDR Ken Maroon ✓	<i>After Action report on USNA's first ever cohort of DS and AI students' summer internships</i>
Evening	No host social	The Choptank	<i>No host social at rooftop bar overlooking people showing off their boats</i>

✓ Denotes Confirmed Speaker



Fall AI Summit – Thursday | 26 Sep

Legend
Unclassified | Classified



Timing	Topic	Lead / Speaker	Description
0830-0910 (40 min)	<i>IRIS and CITADEL</i>	<i>LCDR "Colt" Wettstein, LT Kylie Johnson, Mr. Scott Heckens</i> ✓	<i>USSTRATCOM J52 Strategic Target Maintenance Use Case – IRIS Imagery Change Detection and CITADEL Text Analytics</i>
0910-0950 (40 min)	<i>USCYBERCOM AI Task Force</i>	<i>Dr. Andrea Mask</i> ✓	<i>Overview of US Cyber Command's AI Roadmap</i>
0950-1020 (30 min)	<i>Networking break</i>		
1020-1050 (30 min)	<i>Raven Sentry</i>	<i>Mr. Todd Paulsen</i> ✓	<i>AI-enabled warning model used in 2019-2020 Afghanistan to provide warning of insurgent attacks and inform armed ISR operations</i>
1050-1120 (30 min)	<i>Iron Bounce</i>	<i>Mr. Todd Paulsen</i> ✓	<i>TFSH effort to establish AI-enabled Electro Optic-AIS model leveraging ONI datasets that will support semi-autonomous Maritime Domain Awareness, scouting, combat identification, and long-range fires</i>
1120-1250 (80 min)	<i>Lunch</i>		
1250-1325 (35 min)	<i>Kraken</i>	<i>Dr. Chris Paul</i> ✓	<i>Overview of TRON and Project Kraken, NPS support to Task Force 66</i>
1325-1400 (35 min)	<i>Emerging/Disruptive Threats</i>	<i>Mr. Dave Gerkin</i> ✓	<i>AI Adversarial trends and the future of warfare</i>
1400-1430 (30 min)	<i>TF Hopper</i>	<i>LT Artem Sherbinin</i> ✓	<i>Update from TF Hopper on AI for Naval Surface Forces</i>
1430-1500 (30 min)	<i>Networking break</i>		
1500-1530 (30 min)	<i>ADAPT</i>	<i>Mr. Macpherson Stevens</i> ✓	<i>Overview of Afloat Data Analysis & Persistent Transmission (ADAPT)</i>
1530-1600 (30 min)	<i>SMDII / PASS</i>	<i>Mr. George McVey</i> ✓	<i>Predictive Analytics for Ship Scheduling (PASS)—Ship Maintenance Data Improvement Initiative (SMDII)</i>
1600-1630 (30 min)	<i>GenAI for Navy 2Ks</i>	<i>Mr. George McVey</i> ✓	<i>Using Generative AI to complete Navy Trouble Tickets (Form 2-Kilos)</i>
1630	<i>End of summit</i>		

✓ Denotes Confirmed Speaker



Upcoming Naval Data and AI events



Spring 2025 AI Summit

24-27 March 2025

Naval Postgraduate School
Monterey, CA

POCs:

Dr. Jack Long john.g.long.mil@us.navy.mil

Randy Pugh rpugh@nps.edu

NWSI@nps.edu



Naval Information Warfare Center



NAML

24-27 February 2025

NIWC – Pacific
San Diego, CA

POCs: Dr. Katie Rainey
kate.e.rainey.civ@us.navy.mil
naml@us.navy.mil

Website: go.mil/naml

Flankspeed join code: mmyz6c4



Naval Information Warfare Center



ATLANTIC

Naval Data & AI Workshop

19-21 November 2024

NIWC – Atlantic
Charleston, SC

POC: Adam Tyson

adam.s.tyson.civ@us.navy.mil

navaldataandaiworkshop@us.navy.mil

[Data & AI Workshop](#)

DCOPE code: xzgbvce



Naval AI Hackathon

13-17 December 2024

Naval Postgraduate School
Monterey, CA

POC: Prof Mathias Kolsch

kolsch@nps.edu

AI NIX:

AI Naval Innovation Exchange

Admin & Log Information



Admin & Logistics Information for In-Person Attendees



Location

- **Address:** Hopper Hall, US Naval Academy
597 McNair Rd, Annapolis, MD 21402
- <https://www.usna.edu/NewsCenter/files/documents/spreads.pdf>
- **Rooms:** 23-24 Sep: Volgenau Conf Center (5th Floor)
25-26 Sep: CERF (4th Floor)
- **Parking:** Limited. Please carpool. Parking garage near the Officers Club or along the sea wall ([see map slide](#))
- **Campus Map and Lunch Options:** [See map slide](#)

Presentation Materials

- Email **Unclassified** briefs to: NWSI@nps.edu
- Email **Secret** briefs to USNA CERF:
 - steven.walters.ctr@usmc.smil.mil and maria.samsky@usmc.smil.mil
- Email **TS/SCI** briefs to USNA CERF:
 - walters@nmic.ic.gov
 - samskym@nmic.ic.gov
 - Wordenb@nmic.ic.gov
- **Name file:** *Lastname_Fall AI Summit*
- **All briefs must be submitted NLT COB Friday 20 Sep**

Passing Security Clearances

To attend any of the classified briefs you must have your security section send your information to the CERF. Additionally, there are limited seats available and will be first-come, first-served based on the SignUpGenius registrations. SMO codes and other required info is on the [Passing Security Clearance](#) slide.

Non-CAC / Retiree ID Card holders

Visitors to USNA who do not have a CAC or retiree ID Card cannot drive onto the base. Solutions include carpooling with a CAC holder / retiree or walking through the Gate 1 Visitor's Center security checkpoint.

General

- **Dress:** Business casual
- **HPCON:** The current HPCON is Alpha.
- **WiFi:** WiFi in the Volgenau Conf Center is available to a limited number of participants. If you absolutely require WiFi access, please contact NWSI@nps.edu with your request NLT 16 Sep 24.



Admin & Logistics Information for Virtual Attendees



Attendance

The link to the remote option for virtual attendees was included in the email that contained this slide deck as a Microsoft Teams calendar invite from **0800 - 1700 EDT on 24 Sep 24**. The link is also included on the last slide of this smart pack.

Slides **will be posted online (UNCLASS and CUI)** on the NPS website after the AI Summit.

Please be Advised

CURRENTLY, VIRTUAL ATTENDEES WILL ONLY BE ABLE TO ATTEND UNCLASSIFIED SESSIONS ON TUESDAY 24 SEP VIA MS TEAMS.



Passing Security Clearance



Incoming Security Clearance

For visitors coming to the US Naval Academy:

Incoming clearances should be submitted using the visits notification section in DISS (Defense Information Security System)

Visit Name: AI Summit

Location: USNA Annapolis, MD

Secret / Collateral should be submitted to:

SMO Code N001614 | POC Ms. Maria Samsky | (410) 293-0967 | samsky@usna.edu

If the incoming visitor's security office does not have access to DISS, your Security Office will need to email a visit request/clearance to samsky@usna.edu.

TS / SCI clearance should be submitted to:

SMO Code N001613 | POC Ms. Maria Samsky | (410) 293-0967 | samsky@usna.edu

Please be Advised

PLEASE ENSURE THAT ATTENDEES HAVE THEIR NAME AND PHONE NUMBER AS THEIR POINT OF CONTACT AND NOT THE ATTENDEES' SECURITY MANAGER.



Conference Attendance for DoN Participants



SECNAV 5050

NPS' President, VADM(Ret) Ann Rondeau, has approved a SECNAV 5050 (Conference Request Form). If you need a copy for your records and/or to complete your travel authorization or voucher, please email NWSI@nps.edu and we'll send it to you.

Part of NPS' obligation as conference host is to capture actual costs of the AI Summit. We will reach out to everyone who attended after the Summit with a quick RFI. Thanks in advance for your help with this.

FOR OFFICIAL USE ONLY - PRIVACY ACT SENSITIVE

SECNAV 5050-1
SECNAVINST 5050.1 (Rev 0)

CONFERENCE REQUEST FORM

PRIVACY ACT STATEMENT

AUTHORITY: 5 U.S.C. 552A, Secretary of the Navy, 10 U.S.C. 10101, Department of the Navy, Marine Corps, and SEC. 5050 (DOD) as amended, DODM 5050.02, Additional Authority: DOD 5050.07, Joint Chiefs Regulation, DOD Conference Ombudsman v. 42

PURPOSE: To report on attendance pertaining to requests to host and attend conferences by Department of the Navy, DODM employees, ROUTINE USE: Data is used by DOD's system managers, administrative offices and system administrators that have a need to know to process requests. The information we seek is not able to be shared with other agencies or contractors.

DISCLOSE: Voluntary, however, failure to provide the requested information may result in a delay or inability to process requests.

SECTION I - To be completed by Requestor
Thoroughly review the attached instructions before completing this section.

1. TYPE OF REQUEST: HOSTING ATTENDANCE

2. APPROVAL AUTHORITY (See instruction 1)

3. DATE OF REQUEST (DDMMYYYY): 06Aug2024

4. REQUESTING ORGANIZATION/COMMAND/OFFICER:
Naval Warfare Studies Institute (NWSI), Naval Postgraduate School (NPS)

5. CONFERENCE TITLE:
Artificial Intelligence (AI) Summit

6. DATES OF CONFERENCE (From (DDMMYYYY) to (DDMMYYYY)): 23Sep2024 to 26Sep2024

7. CONFERENCE HOST AND/OR CO-SPONSOR:
NPS, Naval Warfare Studies Institute (NWSI)

8. LOCATION OF CONFERENCE (Name, City, State, ZIP Code, Country):
US Naval Academy 133 Blake Road, Annapolis, MD 21402

9. PURPOSE OF CONFERENCE AND TARGET AUDIENCE:
The Naval AI Summit facilitates cross-organizational, information sharing, and promotes lessons learned from across personnel, academia, and industry. The AI Summit is a semi-annual event that explores marine, naval, terrain, and defense related work topics to address the Naval AI Task Force's key findings around data, information, and connectivity that currently limit the DoD from realizing AI. Registration open for six-person or virtual attendance.

10. OFFICIAL AGENDA ATTACHED: Yes No - Explanation required
Description:
The event is a signature component of the NAVFLAN's implementation. Framework and it will gather AI experts representing the Navy, other Military Services, Defense Organizations, stakeholders, students, industry, and other senior industry personnel. The goal is to discuss how AI can transform naval capabilities and tackle current maritime challenges. The event will provide a platform for leading shore DoD, USN, and USMC practitioners and personnel for AI systems, for exchanging experiences and ideas regarding practical AI, and for discussing some of the most substantial advances in AI technology for naval applications.

11. CONFERENCE WEBSITE URL, if applicable: <https://nps.edu/news/ai-summit-spring-2024>

12. NUMBER OF ATTENDEES:

Event DOM	100	TAD DOM	35	Total DOM	135
# Hosts					
Total Air Force	10	Total Army	10	Total Other DoD	10
Other Agency Name: (Secretary (NCS))	10	Total	35	Other Agency Name:	
Other Agency Name:	Total	Other Agency Name:	Total		
Total Number of Attendees at Conference: 135					

13. ATTENDEE JUSTIFICATION (See instruction 1)

1. Attendee	ATTENDING OFFICER NAME	JOB TITLE	CONTROLLING CITY	WOLC AI CONFERENCE
	NPS/Naval Academy personnel	Faculty, Staff	Manassas, VA	Other: (Organize, Present, U)

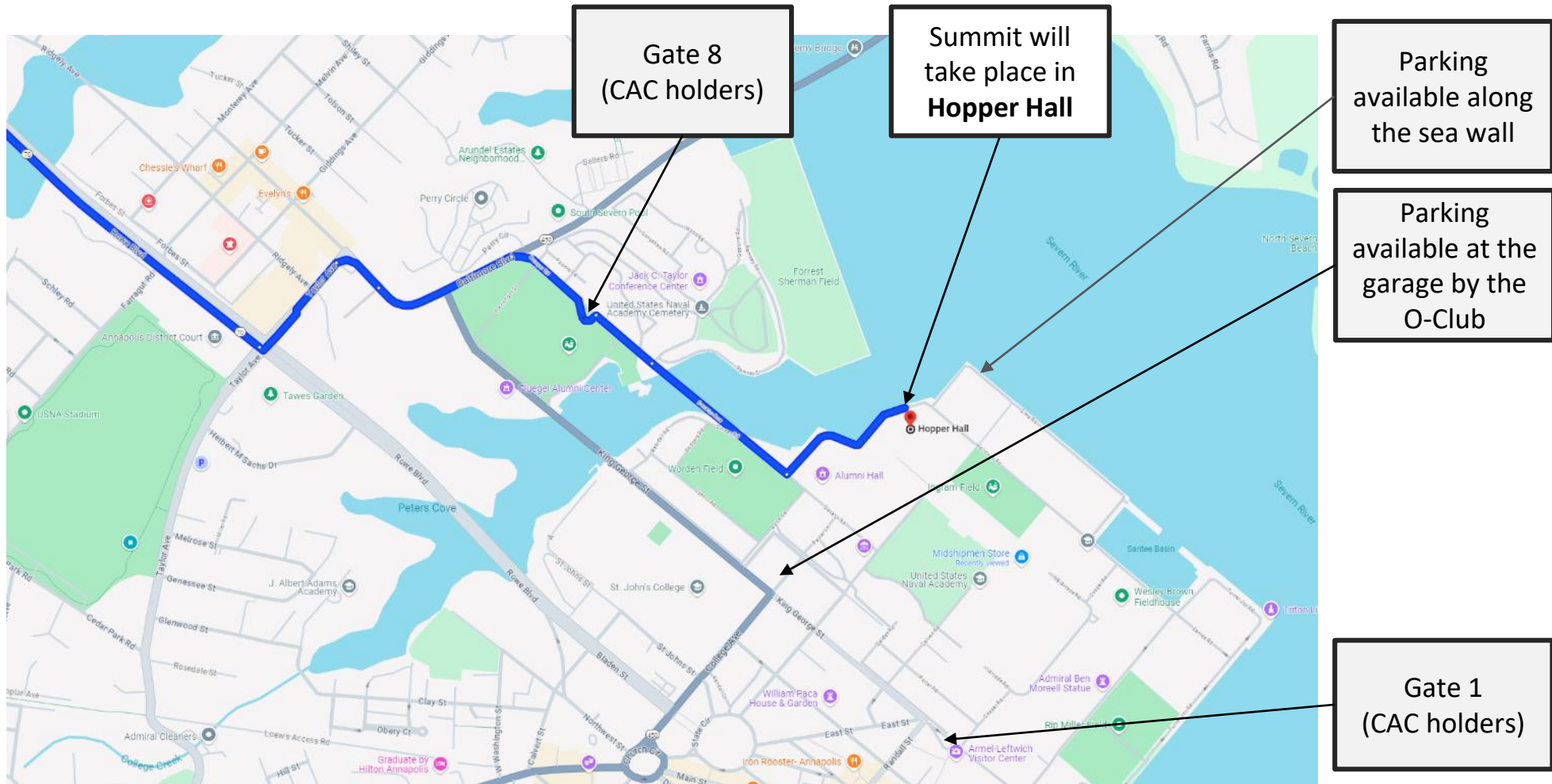
TRAVEL DATA (ONLY provide this on conference flyer)
From (DDMMYYYY): 23Sep2024 to (DDMMYYYY): 27Sep2024
Comments: If travel is combined with leave or other official business explain below
NPS Priority sea bottom speakers and presenters, and as the AI Summit is centrally, they may travel before the AI Summit is set formal at NPS.

Justification (Specify by day of presentation, name of panel, value of attendance)
Based on prior AI Summits, and growing interest in the topic we expect approximately 100 local DoD participants from the Naval Academy and several DC Area. We anticipate 40 other DoD personnel from the four branch. This event is a key event for AI.

SECNAV 5050-1 (12/2019) FOR OFFICIAL USE ONLY - PRIVACY ACT SENSITIVE Page 1 of 1
Any release or unauthorized disclosure of this information may result in death or other serious injury.

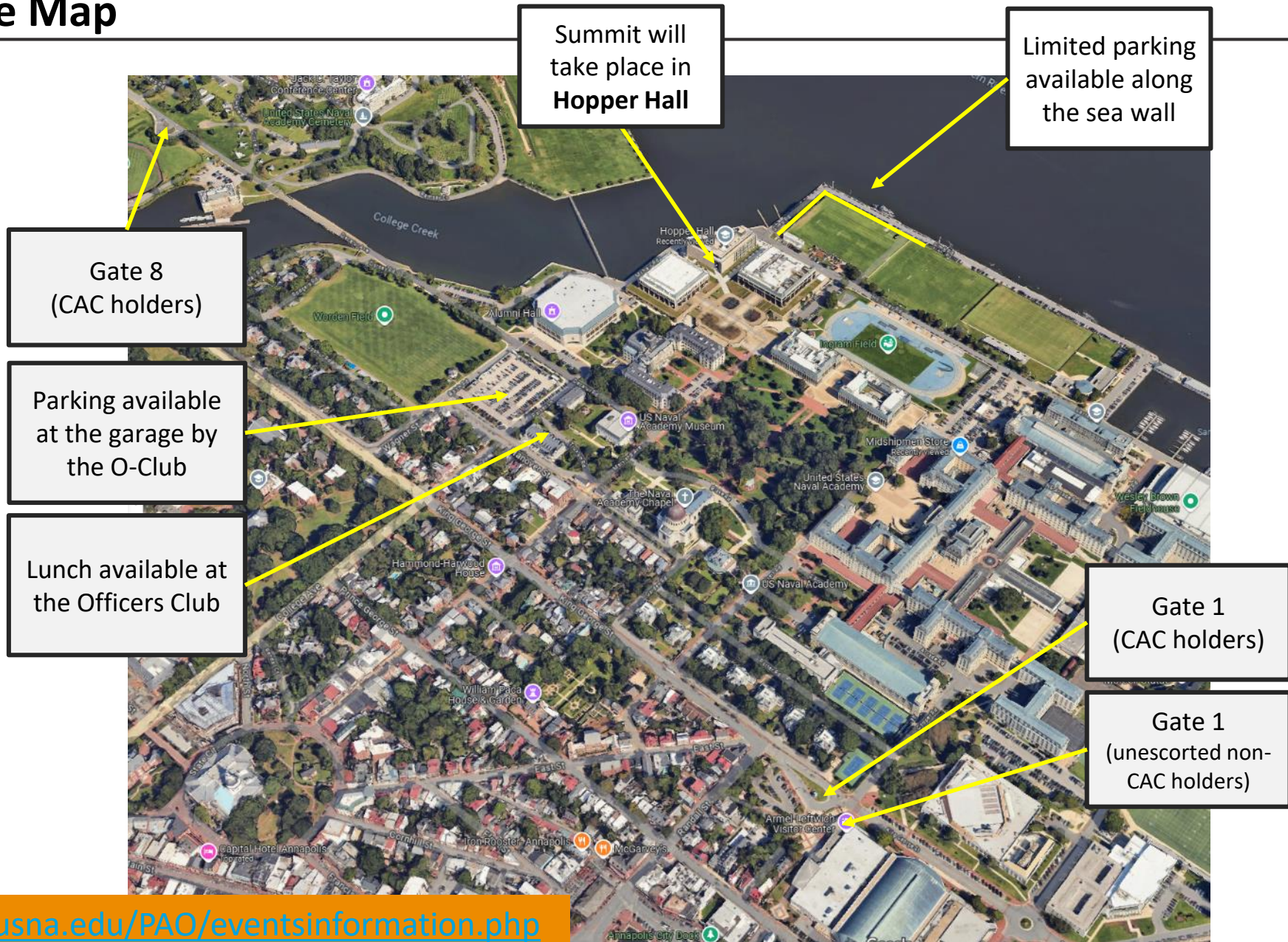


Site Map





Site Map



<https://www.usna.edu/PAO/eventsinformation.php>

Summit parking in areas shaded in green

Summit Parking

Summit will take place in





Fall 2024 Naval AI Summit (Remote)

Tuesday 24 Sep

Microsoft Teams [Need help?](#)

[Join the meeting now](#)

Meeting ID: 281 620 981 132

Passcode: R3mPEn

Dial in by phone

[+1 323-457-5029,,386973031#](#) United States, Los Angeles

[Find a local number](#)

Phone conference ID: 386 973 031#

For organizers: [Meeting options](#) | [Reset dial-in PIN](#)
