

Jaemin Cho

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Education	Stony Brook University	Aug. 2024 – Dec. 2026 (Expected)
	M.S. Candidate in Computer Science	GPA: 3.9/4.0
	Advisor: François Rameau Thesis: <i>Privacy Exposure and Omnidirectional Generalization in Scene Coordinate Regression for Visual Localization</i>	
	Inha University	Mar. 2018 – Jun. 2024 (Military service leave)
	B.E. in Electronic Engineering	
	Stony Brook University , Exchange Student	Jan. 2023 – May 2023
Publications	Seeing Through the Weights: Privacy Leakage in Scene Coordinate Regression	
	Oleksii Nasypanyi*, Jaemin Cho *, Utku Ozbulak, Byungkun Kang, François Rameau. European Conference on Computer Vision (ECCV), 2026. Long Oral (top 0.27%). 📄 Paper 🌐 Page 🔄 Code 📺 Presentation *Equal contribution	
	Ray-SCR: Generalizing Scene Coordinate Regression Across Camera Models	
	Jaemin Cho , Oleksii Nasypanyi, François Rameau.	Under review
Research	Spatial AI · Trustworthy 3D Vision · Visual Localization	
	Spatial Intelligence Lab	Aug. 2024 – Present
	Graduate Research Assistant	
	Privacy Leakage in Scene Coordinate Regression	ECCV 2026 · Long Oral
	- Recovered the 3D geometry and appearance of private scenes from trained SCR models using only unrelated query images with a stability score for reliable predictions, challenging the claim that network weights alone are privacy-preserving. - Revealed leakage on private scenes at mean F1@5 cm of 83% from query access alone and 94% with the weights, held across four SCR architectures indoors and outdoors, with recognizable novel views rendered from the known poses.	
	Ray-SCR: Generalizing Scene Coordinate Regression Across Camera Models	
	- Conditioned SCR predictions on each pixel's calibrated viewing ray and anchored them to sparse SfM points, enabling a single SCR model trained on a 360° image sequence to localize pinhole, fisheye, and 360° queries. - Achieved state-of-the-art localization performance on 360Loc for all five camera types, day and night, and on OmniScenes, outperforming explicit-map methods while using 77× less storage.	
	Lattice-SCR: Privacy-Preserving Visual Localization	Ongoing · Lead
	Folded predicted scene coordinates into a periodic lattice cell, defending against inversion attacks while keeping localization accuracy, training time, and model size on par with vanilla SCR models.	

Media & Talks	Interview, Computer Vision News Sep. 2026
	ECCV 2026 Daily – Saturday, pp. 2–6 · <i>Seeing Through the Weights</i>  Magazine
	Short Talk, Privacy-Preserving Visual Localization and Mapping (PPVLM) Sep. 2026 ECCV 2026 Workshop · <i>Seeing Through the Weights</i>
	Poster, 3rd Int. Workshop on Privacy-Preserving Computer Vision Sep. 2026 ECCV 2026 Workshop · <i>Seeing Through the Weights</i>
Funding	Graduate Research Assistantship & Full Tuition Waiver Aug. 2024 – Present IITP Innovative Human Resource Development · Funded by the Korea government (MSIT)
Awards	President’s Award (1st Prize, SBU Graduate) Nov. 2025 SUNY Korea Research Challenge; winner among 59 teams. Poster: “ <i>Privacy Attacks on Scene Coordinate Regression for Camera Re-localization</i> ”
	President’s Award (Grand Prize) Jun. 2022 Industry-driven Capstone Design Contest, Inha University; winner among 9 teams. Project: “ <i>Carbon Monoxide Detector for Honeywell Korea</i> ”
Work Experience	Korea Electric Power Corporation Research Institute Sep. 2023 – Feb. 2024 Research Intern  Demo
	• Built the ergonomic risk-assessment module for the Hyper-Realistic Safety Training System, winner of the 2024 Auggie Award for Best Education & Training Solution. • Optimized a MobileNetV3-based 2D pose-estimation pipeline for real-time risk assessment, cutting latency by 7 ms and compute by 30M MACs versus the original pipeline.
	Visionin Jul. 2023 – Aug. 2023 AI Engineer Intern
	• Improved YOLOv4 fire-detection mAP by 6 percentage points and reduced false alarms by 9% for deployment across 19 department-store CCTV systems.
Teaching	SUNY Korea AI Summer School Jul. 2026 Teaching Assistant — Led hands-on computer vision labs for 43 students.
Mentoring	5th Annual Nepal AI School (ANAIS) Dec. 2024 – Jan. 2025 Mentored the winning team in the Anti-Money Laundering Challenge Hackathon.
Skills	Programming: Python, C/C++ ML & Vision: PyTorch, OpenCV, COLMAP, pycolmap, hloc, PoseLib Systems & Tools: Linux, Git, Docker
Military Service	Eighth Army, 35th Air Defense Artillery Brigade 2019 – 2021 KATUSA Sergeant (Korean Augmentation to the U.S. Army), HR Specialist (42A)