Kurt Pasque

KurtPask | KurtPasque | kurtpasque.com | kurtpasque@gmail.com | +1.405.620.0269

Data scientist with an M.S. in Operations Research and a record of designing and delivering data-driven solutions within complex organizations. Experienced in applying machine learning, optimization, and systems modeling to improve real-world processes and decision-making. Combines strong engineering fundamentals with leadership experience as a U.S. Navy officer. Skilled at driving projects from concept to production and communicating technical insight to non-technical stakeholders.

Education

Naval Postgraduate School | M.S. Operations Research (GPA: 3.92/4.00) 2022–2024

United States Naval Academy | B.S. Mechanical Engineering 2015–2019

Experience

Data Scientist | Naval Education and Training Command 2024 – Present

- Leading AI integration efforts in NETC domain. Internal trainings, contract/leadership advisor, pilot projects.
- AI lead on cross functional team to redesign Navy training.
- Built complex Databricks, Tableau, PowerBI, and Excel products to improve leadership decision making.

Research Collaborator | Naval Postgraduate School 2024 – Present

- Led computation arm of project resulting in NeurIPS 2025 poster for paper on tropical attention.
- Experiment lead for research on Universal Reasoning Models.

Graduate Student | Naval Postgraduate School 2022 – 2024

- Winner, INFORMS MAS Gaver Thesis Research Award
- Finalist, MORS Tisdale Graduate Research Prize
- Naval Innovation Exchange AI team lead

Division Officer | U.S. Navy Pay and Personnel Support Center 2019 – 2022

- Built agent workflows with UiPath to automate repetitive, manual intensive back office processes.
- Navy-wide lead on legacy system transition to SalesForce CRM.

Publications

[1] K. Pasque, C. Teska, R. Yoshida, K. Miura, and J. Huang, "Adversarially robust neural network decision boundaries via tropical geometry," *Neural Networks*, vol. 199, 2026.

[2] B. Hashemi, K. Pasque, C. Teska, and R. Yoshida, "Tropical attention: Neural algorithmic reasoning for combinatorial algorithms," *Advances in Neural Information Processing Systems*, NeurIPS 2025 (Poster), 2025.

[3] K. Pasque, "Tropical geometry in neural networks: A novel defense against adversarial attack," Master's thesis, Naval Postgraduate School, 2024.

Certifications

Certified Analytics Professional — Expert (CAP-X) — *INFORMS (2024)*
UiPath Certified Advanced RPA Developer v1.0 (UiARD) — *UiPath (2022)*
Fundamentals of Engineering (FE) Exam — *NCEES (2019)*