

Derin Gezgin

CONTACT INFORMATION	dgezgin@conncoll.edu deringezgin.github.io github.com/deringezgin linkedin.com/in/deringezgin	
EDUCATION	Connecticut College , New London, CT <i>Bachelor of Arts</i> Double Major: Computer Science & Statistics and Data Science Advisors: Ozgur Izmirli & Yan Zhuang	August 2023 - May 2027 GPA: 4.0/4.0
RESEARCH EXPERIENCE	Software Engineering Group Undergraduate Student Researcher, <i>Cornell University</i> <ul style="list-style-type: none">• Advisor: Dr. Saikat Dutta Autonomous Agent Learning Lab Undergraduate Student Researcher, <i>Connecticut College</i> <ul style="list-style-type: none">• Advisor: Dr. Gary Parker & Supervisor: Jim O'Connor• Evolved a game agent using CMA-ES, which uses an LSTM as a decision network to play Sparrow Mahjong, that can win 30% more games than the baseline agent• Work on a project focusing on hexapod gait generation, aiming for IJCCI 2025 Informatics Lab Undergraduate Student Researcher, <i>Connecticut College</i> <ul style="list-style-type: none">• Advisor: Dr. Timothy Becker• Developed an image classification pipeline using vision transformers to classify water-flow images around Connecticut which achieved over 90% accuracy on unseen data	May 2025 - Present July 2024 - Present May 2024 - Present
PUBLICATIONS	[1] <i>Evolutionary Optimization of Deep Learning Agents for Sparrow Mahjong</i> Jim O'Connor, Derin Gezgin , Gary Parker In review for IEEE Conference on Games 2025 [2] <i>Evolving Neural Controllers for Xpilot-AI Racing Using Neuroevolution of Augmenting Topologies</i> Jim O'Connor, Nicholas Lorentzen, Gary B. Parker, Derin Gezgin In review for IEEE Conference on Games 2025 [3] <i>A framework for river connectivity classification using temporal image processing and attention based neural networks.</i> Timothy James Becker, Derin Gezgin , Jun Yi He Wu, Mary Becker ACM Conference on Computing and Sustainable Societies 2025 arxiv.org/abs/2502.00474	
TALKS & PRESENTATIONS	Machine Learning Image Based In-Stream Water Flow Classification <ul style="list-style-type: none">• Poster presentation at Northeast Aquatic Biologists Conference• Oral presentation at the weekly colloquium of the Connecticut College Summer Science Research Institute• Poster presentation at Connecticut College's 2024 All-College Symposium.	

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HONORS & AWARDS	Summer Science Research Institute Awarded \$4,000 (2024) and \$4,500 (2025) for summer research at Connecticut College	Summer 2024 & Summer 2025
	Dean's High Honors Awarded each semester for maintaining a GPA above a threshold determined by the academic performance of the past four graduating classes	Every Semester
	Sophomore Computer Science Award For excellence in Computer Science.	Spring 2025
	Sophomore Julia Wells Bower Prize For distinction in mathematics, offered by an anonymous donor in honor of Julia Wells Bower, Professor Emeritus of Mathematics.	Spring 2025
TEACHING EXPERIENCE	Teaching Assistant & Grader Connecticut College, New London, CT COM110: Introduction to Computer Science COM212: Data Structures <i>Accumulated over 300 hours of service</i>	Spring 2024 - Present Spring 2024 - Present Fall 2024 - Present
DEPARTMENTAL SERVICE	Connecticut College CS Student Advisory Board <i>Diversity Chair</i>	August 2024 - Present
SKILLS	Programming Languages: Python, Java, R, MATLAB, L ^A T _E X, Scheme Libraries: PyTorch, TensorFlow, Scikit-learn, NumPy, Jax, Pandas, Matplotlib, Pgx Languages: English (Fluent) & French (Fluent) & Turkish (Native)	