

# Derin Gezgin

---

CONTACT INFORMATION	dgezgin@conncoll.edu deringezgin.github.io github.com/deringezgin linkedin.com/in/deringezgin	
EDUCATION	<b>Connecticut College</b> , New London, CT <i>Bachelor of Arts</i> Double Major: Computer Science & Statistics and Data Science Advisors: Ozgur Izmirlı & Yan Zhuang	August 2023 - May 2027 <b>GPA: 4.0/4.0</b>
RESEARCH EXPERIENCE	<b>Autonomous Agent Learning Lab</b> Undergraduate Student Researcher, <i>Connecticut College</i> <ul style="list-style-type: none"><li>• Advisor: Dr. Gary Parker &amp; Supervisor: Jim O'Connor</li><li>• 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</li><li>• Work on a project focusing on hexapod gait generation, aiming for IEEE-SMC 2025</li></ul> <b>Informatics Lab</b> Undergraduate Student Researcher, <i>Connecticut College</i> <ul style="list-style-type: none"><li>• Advisor: Dr. Timothy Becker</li><li>• Developed an image classification pipeline using vision transformers to classify water-flow images around Connecticut which achieved over 90% accuracy on unseen data.</li></ul>	July 2024 - Present        May 2024 - Present
PUBLICATIONS	<p>[1] <i>Evolutionary Optimization of Deep Learning Agents for Sparrow Mahjong</i> Jim O'Connor, <b>Derin Gezgin</b>, Gary Parker In review for IEEE Conference on Games (COG) 2025</p> <p>[2] <i>Evolving Neural Controllers for Xpilot-AI Racing Using Neuroevolution of Augmenting Topologies</i> Jim O'Connor, Nicholas Lorentzen, Gary B. Parker, <b>Derin Gezgin</b> In review for IEEE Conference on Games (COG) 2025</p> <p>[3] <i>A framework for river connectivity classification using temporal image processing and attention based neural networks.</i> Timothy James Becker, <b>Derin Gezgin</b>, Jun Yi He Wu, Mary Becker ACM Conference on Computing and Sustainable Societies (COMPASS) 2025 arxiv.org/abs/2502.00474</p>	
TALKS & PRESENTATIONS	<b>Machine Learning Image Based In-Stream Water Flow Classification</b> Presentation at the weekly colloquium of Connecticut College Summer Science Research Institute. Poster presentation at Connecticut College's 2024 All-College Symposium.	
HONORS & AWARDS	<b>Summer Science Research Institute</b> Awarded \$4,000 for summer research at Connecticut College	Summer 2024
	<b>Dean's High Honors</b> Awarded each semester for maintaining a GPA above a threshold determined by the academic performance of the past four graduating classes.	Every Semester

TEACHING EXPERIENCE	<b>Teaching Assistant &amp; Grader</b>	Spring 2024 - Present
	Connecticut College, New London, CT	
	COM110: Introduction to Computer Science	Spring 2024 - Present
	COM212: Data Structures	Fall 2024 - Present
DEPARTMENTAL SERVICE	Connecticut College CS Student Advisory Board, Diversity Chair	Fall 2024 - Present
SKILLS	<b><i>Programming Languages:</i></b> Python, Java, R, MATLAB, LaTeX, Scheme <b><i>Libraries:</i></b> PyTorch, TensorFlow, Scikit-learn, NumPy, Jax, Pandas, Matplotlib, Pgx <b><i>Languages:</i></b> English (Fluent) & French (Fluent) & Turkish (Native)	