William (Will) H. Solow

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will-solow • wsolow

Education

Oregon State University, Corvallis, OR **August 2023 – Present**
Doctoral Candidate, Artificial Intelligence
GPA: 3.91/4.0

Oregon State University, Corvallis, OR **August 2023 – October 2025**
Masters of Science, Artificial Intelligence.
GPA: 3.91/4.0

Colby College, Waterville, ME **August 2018 – May 2022**
Bachelor of Arts, Majored in Computer Science and in Mathematics
GPA: 3.96/4.0. Graduated Magna Cum Laude and Phi Beta Kappa

Research Experience

Graduate Research Assistant **August 2023 – Present**
Oregon State University, Corvallis, OR
- As a member of the Intelligent and Reliable Autonomous Systems Lab, I work on sequential decision making and forecasting problems with applications to agriculture. I am funded by the AgAID Institute. Advisor: Dr. Sandhya Saisubramanian.

Undergraduate Research Assistant **May 2021 – August 2021**
Montana State University, Bozeman, MT
Funded by a NSF REU scholarship, I devised and implemented a novel algorithm for the Circular Pattern Matching problem for applications to DNA analysis and malware detection. Advisor: Dr. Brendan Mumey.

Undergraduate Research Assistant **Fall 2020 – December 2022**
Colby College, Waterville, ME
- Studied the molecular structure of the water trimer by implementing the Diffusion Monte Carlo algorithm. Advisors: Dr. Lindsey Madison and Dr. Eric Aaron.
- Examined the effects of hyperparameter tuning of dynamical system cognitive agents under the belief-desire-intention framework using reinforcement learning. Advisor: Dr. Eric Aaron.

Publications

- WOFOSTGym: A Crop Simulator for Learning Annual and Perennial Crop Management Strategies. **W. Solow**, S. Saisubramanian, A. Fern. In *Reinforcement Learning Conference (RLC)*, 2025. Outstanding Paper Award for Applications of Reinforcement Learning.
- Budgeted Online Active Learning with Expert Advice and Episodic Priors. K. Goebel, **W. Solow**, P. Pascantez-Cabrera, M. Keller, A. Fern. In *Proceedings of the AAAI Conference on Artificial Intelligence*, 2026.
- Calibrating Biophysical Models for Grape Phenology Prediction via Multi-Task Learning. **W. Solow**, S. Saisubramanian. *Under Review*, 2025.

Work Experience

Graduate Teaching Assistant **August 2023 – Present**
Oregon State University, Corvallis, OR
Create, assign, and grade weekly homework assignments. Hold weekly office hours and proctor midterm and final exams. Courses taught: CS321, Theory of Computation (3 sections over 3 terms).

Assistant Coach, Nordic Skiing **June 2022 – July 2023**
Ford Sayre Memorial Nordic Ski Club, Hanover, NH
- Supervised eight weekly training sessions for 20 high school athletes. Planned three, week-long training camps for 20 athletes including facilitating travel, meals and accommodations. Provided weekend race support to athletes qualifying for Junior Nationals. Managed all communication among athletes, parents, and other coaching staff.
- Selected by the New England Nordic Skiing Association (NENSA) to coach at Junior Nationals in Fairbanks, AK.

Mathematics and Computer Science Tutor **August 2019 – May 2022**
Colby College, Waterville, ME

Service

Master's Project Capstone Mentor **August 2025 – Present**
Oregon State University, Corvallis, OR
Advise AI Master's students on their Capstone project in fulfillment in their Master's of Science.

Secretary of Finance, AI Graduate Student Association **April 2024 – Present**
Oregon State University, Corvallis, OR
Manage club finances and draft yearly budget proposal. Plan yearly club events for 250 active members.

Mentor, AI Graduate Application Support Program **August 2023 – Present**
Oregon State University, Corvallis, OR
Mentor students through the graduate application process. Support for 2 prospective students included resume/CV and personal statement review and answering specific questions about Oregon State University's EECS graduate program.

Technical Skills and Coursework

- Programming Languages:
  - Python/NumPy
  - PyTorch/TensorFlow
  - ROS
  - MATLAB, R
  - C/C++
- Relevant Graduate Coursework:
  - Machine Learning
  - Deep Learning
  - Intelligent Systems and Decision Making
  - Online Learning and Recommender Systems
  - Optimization for AI

Professional Skills

- Excellent Communicator:
  - Gave hour-long bimonthly presentations on technical reinforcement learning research papers to a group of 10 graduate and undergraduate students, some of which had minimal background on the topics.
  - Drafted weekly emails with program logistics detailing 8 scheduled training sessions for 20 athletes and their associated parents.
- Strong Organizational Skills
  - Proactively coordinated travel for high school athletes to different training sessions and race venues.
  - Solicited volunteers for weekly reading group presentations for the Intelligent and Autonomous Systems Lab.
- Experienced Leader
  - Captain of the Colby College Division I Nordic Ski Team for two years. Set a standard for a strong work ethic while supporting other teammates.
  - Advocated for accessibility in the classroom, particularly for hearing loss accommodations, as a member of the Disability Awareness Board at Colby College.

Personal

As avid outdoor enthusiast, I enjoy running in the mountains, backcountry skiing, surfing, and mountain biking. I am a certified US Ski and Snowboard L100 Coach and hold certifications in Wilderness First Aid and CPR. At Colby College, I raced for the Nordic Ski team where I was captain for two years, and I ranked in the top 30 finishers at the 2021 Division I NCAA Skiing Championships.