



DANIEL GLOVER

Ph.D. Graduate Research Assistant WSU

@ daniel.glover1@wsu.edu
in daniel-glover-59b52a188

(405) 414-8162
dgloves dgloves.github.io

Pullman, WA USA

RESEARCH

- Reinforcement Learning
- Grid-edge control
- AI Safety & robustness
- Data domain sensitivity
- Inverter-based resources

COMPETENCE

Programming:

- (adv): Python, MatLab
- (int): R/R-Studio, C/C++
- (beg): Julia, TCL

Software:

- OpenDSS, PandaPower, PowerWorld
- ATP, PSCAD, EMTPWorks
- AIGym, Pytorch, Tensorflow

Hardware:

- Testbed switchgear, terminal blocks
- Hand tools, soldering, cable termination
- Digital relay calibration
- Microcontrollers, PLCs

GROUPS

- IEEE Student Member
- Climate Change AI
- American Indian Science & Engineering Society

RECOGNITION

- National GEM Fellow
- GAANN Fellowship EECS & Machine Learning WSU
- National Intel Scholar
- Distinguished Mentor Award OU

EXPERIENCE

Electrical Engineering Intern | Pacific Northwest National Laboratory

- May 2021 – present
- Richland, WA
- Distributed Systems Group, Modeling & Analysis Team
 - Autonomous control & modeling of grid-forming solar PV inverters
 - Convolutional Neural-Network (CNN) based fault detection in distribution feeders

Software Engineering Intern | Intel Corporation

- May 2019 – August 2019
- Hillsboro, OR
- Devices Development Group, Design for Testability Team
 - Script validation, logic, and testing for various Systems-on-Chip (SoCs)
 - Developed tracing program to create visual SoC mapping framework

EDUCATION

Ph.D. | Washington State University

- August 2021 – Dec 2025 (exp)
- Pullman, WA
- Electrical Engineering & Computer Science

M.S. | University of Oklahoma

- May 2021
- Norman, OK
- Electrical & Computer Engineering, GPA: 3.83
- May 2020
- Norman, OK
- Electrical Engineering, GPA: 3.69

PUBLICATIONS

- D. Glover, G. Krishnamoorthy, H. Ren, A. Dubey, A. Gebremedhin. "Deep Reinforcement Learning Simulations for the Power Grid." Proceedings of the IEEE. 2023, pp.1-28. (pending)
- D. Glover, A. Dubey. "Centralized Coordination of DER Smart Inverters using Deep Reinforcement Learning." IEEE Industry Applications Society Annual Meeting. 2023, pp.1-6.
- D. Glover, J. Devadason, P. Moses. "Multi-Solar PV Allocation for Optimal Sizing and Placement on Distribution Feeders." IEEE International Conference on Smart Grids and Energy Systems. Nov 2020, pp.1-6.