William English

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Summary

Ph.D. student in Computer Engineering at the University of Florida (expected May 2027). Researching neuro-symbolic AI for translating natural language into temporal logic and grounded action specifications. Builds large-scale datasets and toolchains (Docker/HPC/SLURM) for evaluation; develops computer user agents (CUAs) that integrate live video LLMs, UI grounding, and planning. Seeks research scientist internships or roles at the intersection of formal reasoning, LLMs/VLMs, and autonomy.

Education

University of Florida, Ph.D. in Computer Engineering – Gainesville, FL Aug 2023 – Present

- Supervisor: Dr. Rickard Ewetz
- GPA: 3.75
- Research areas: NL-to-Temporal Logic (LTL), neuro-symbolic grounding, program synthesis, online video LLMs for computer use
- Selected Coursework: Fundamentals of Machine Learning, Autonomous Robotics, Safe Autonomous Systems, Introduction to Quantum Computing, Advanced Algorithms and Data Structures

University of Central Florida, B.Sc. in Computer Science – Orlando, FL Aug 2019 – July 2023

- Graduation: July 2023
- GPA: 3.5
- Selected Coursework: Discrete Structures, Graph Theory, Systems Software, Machine Learning, Natural Language Processing

Experience

Graduate Research Assistant – University of Central Florida, University of Florida Aug 2023 – Present

- Conduct research in Neuro-Symbolic AI, participate in DARPA Assured Neuro-Symbolic Reasoning program. Drone simulation with AirSim and ROS, low-cost perception and action planning.
- Publish academic papers in venues such as ICML, pursuing topics including verifiable NL formalization and constrained decoding methods for transformer models and development of new benchmarks for these tasks.

Tutor, S.T.E.M Subjects – Varsity, Wyzant, Private Appointment Jan 2020 – Present

- Help middle, high school, and college students with programming, AI, robotics, misc STEM subjects
- Help students and mentors for FIRST and Vex robotics
- Consult with adult learners and professionals to build out their own tech projects

Undergraduate Research Assistant – University of Central Florida Jan 2020 – May 2021

- Supervisor: Dr. Charles Hughes
- Duties included: Assessing integrability of various technologies into TeachLivE's Virtual Reality application, including Blockly and FitBit APIs.

Publications

[1] **William English**, Dominic Simon, Sumit Kumar Jha, and Rickard Ewetz, "Grammar-forced translation of natural language to temporal logic using LLMs," in *Forty-second International Conference on Machine Learning*, 2025. [Online]. Available: https://openreview.net/forum?id=p411a7WHox.

[2] **William English**, Chase Walker, Dominic Simon, and Rickard Ewetz, *Ginsign: Grounding natural language into system signatures for temporal logic translation*, 2025. arXiv: 2512.16770 [cs.CL]. [Online]. Available: https://arxiv.org/abs/2512.16770.

[3] **William English**, Chase Walker, Dominic Simon, Sumit Kumar Jha, and Rickard Ewetz, *Verifiable natural language to linear temporal logic translation: A benchmark dataset and evaluation suite*, 2025. arXiv: 2507.00877 [eess.SY]. [Online]. Available: https://arxiv.org/abs/2507.00877.

[4] Dominic Simon, Chase Walker, **William English**, and Rickard Ewetz, *Question decomposition using masked language modeling for knowledge editing*, 2025. [Online]. Available: https://openreview.net/forum?id=LFHv1wzUqb.

[5] **William English**, Dominic Simon, Rubel Ahmed, Sumit Jha, and Rickard Ewetz, "Neuro-symbolic program synthesis for multi-hop natural language navigation," in *2024 International Conference on Assured Autonomy (ICAA)*, 2024, pp. 114–117.

[6] **William English**, Dominic Simon, Sumit Kumar Jha, and Rickard Ewetz, "Nsp: A neuro-symbolic natural language navigational planner," in *2024 International Conference on Machine Learning and Applications (ICMLA)*, 2024, pp. 1289–1294.

Technologies

Languages: Python, Java, TypeScript, JavaScript, C, C++

ML/AI: PyTorch, TinyGrad, Hugging Face (Transformers, Datasets, etc.), SPOT, PyModelChecking

Systems & DevOps: Docker, Linux, SLURM, Git, FastAPI, REST/WebSockets

Data/Tools: NumPy, Pandas, Matplotlib, SQL, Firebase, React/React Native

Links

Portfolio|LinkedIn|GitHub