Curriculum vitae

Grant Bruer

2024-03-20

1 Education

degree	subject	school	start-date	end-date
B.S.	computer science, phys	University of Tennesse	2014/08	2018/05
Ph.D.	computational science	Georgia Institute of T	2018/08	not yet
-	-	elementary, middle, hi	2000/08	2014/05

2 Work experience

workplace	title	description	start-date	end-date
The White Stone Group	Software Intern	As part of development	2014/12	2015/05
The White Stone Group	Software Integration S	Worked with integratio	2015/05	2016/05
University of Tennesse	Student Research Assis	Built applications tha	2016/08	2018/05
Argonne National Labor	Givens Associate (inte	Implemented a machine	2020/05	2020/07
Georgia Institute of T	Student Research Assis	Programmed a software	2018/08	2022/06
Georgia Institute of T	Student Research Assis	Researching sequential	2022/08	not yet

3 Publications

Ambrose, Jonathan D, Adam Z Foshie, Mark E Dean, James S Plank, Garrett S Rose, J Parker Mitchell, Catherine D Schuman, and Grant Bruer. 2020. "Grant: Ground-Roaming Autonomous Neuromorphic Targeter." In *2020 International Joint Conference on Neural Networks (IJCNN)*, 1–8. IEEE.

Buckley, Sonia, Adam N McCaughan, Jeff Chiles, Richard P Mirin, Sae Woo Nam, Jeffrey M Shainline, Grant Bruer, James S Plank, and Catherine D Schuman. 2018. "Design of Superconducting Optoelectronic Networks for Neuromorphic Computing." In *2018 IEEE International Conference on Rebooting Computing (ICRC)*, 1–7. IEEE.

Klibisz, Aleksander, Grant Bruer, James S Plank, and Catherine D Schuman. 2017. "Structure-Based Fitness Prediction for the Variable-Structure DANNA Neuromorphic Architecture." In *2017 International Joint Conference on Neural Networks (IJCNN)*, 3431–38. IEEE.

Mitchell, J Parker, Grant Bruer, Mark E Dean, James S Plank, Garrett S Rose, and Catherine D Schuman. 2017. "NeoN: Neuromorphic Control for Autonomous Robotic Navigation." In *2017 IEEE International Symposium on Robotics and Intelligent Sensors (IRIS)*, 136–42. IEEE.

Mitchell, J Parker, Mark E Dean, Grant R Bruer, James S Plank, and Garrett S Rose. 2018. "DANNA 2: Dynamic Adaptive Neural Network Arrays." In *Proceedings of the International Conference on Neuromorphic Systems*, 1–6.

Plank, James S, Catherine D Schuman, Grant Bruer, Mark E Dean, and Garrett S Rose. 2018. "The TENNLab Exploratory Neuromorphic Computing Framework." *IEEE Letters of the Computer Society* 1 (2): 17–20.

Plank, James, Charles Rizzo, Kirolos Shahat, Grant Bruer, Trevor Dixon, Michael Goin, Grace Zhao, et al. 2019. "The TENNLab Suite of LIDAR-Based Control Applications for Recurrent, Spiking, Neuromorphic Systems." Oak Ridge National Lab.(ORNL), Oak Ridge, TN (United States).

Reynolds, John JM, James S Plank, Catherine D Schuman, Grant R Bruer, Adam W Disney, Mark E Dean, and Garrett S Rose. 2018. "A Comparison of Neuromorphic Classification Tasks." In *Proceedings of the International Conference on Neuromorphic Systems*, 1–8.

Schuman, Catherine D, Grant Bruer, Aaron R Young, Mark Dean, and James S Plank. 2018. "Understanding Selection and Diversity for Evolution of Spiking Recurrent Neural Networks." In *2018 International Joint Conference on Neural Networks (IJCNN)*, 1–8. IEEE.

Schuman, Catherine D, Adam Disney, Susheela P Singh, Grant Bruer, J Parker Mitchell, Aleksander Klibisz, and James S Plank. 2016. "Parallel Evolutionary Optimization for Neuromorphic Network Training." In *2016 2nd Workshop on Machine Learning in HPC Environments (MLHPC)*, 36–46. IEEE.

Schuman, Catherine D, James S Plank, Grant Bruer, and Jeremy Anantharaj. 2019. "Non-Traditional Input Encoding Schemes for Spiking Neuromorphic Systems." In *2019 International Joint Conference on Neural Networks (IJCNN)*, 1–10. IEEE.

Schuman, Catherine D, James S Plank, Garrett S Rose, Gangotree Chakma, Austin Wyer, Grant Bruer, and Nouamane Laanait. 2017. "A Programming Framework for Neuromorphic Systems with Emerging Technologies." In *Proceedings of the 4th ACM International Conference on Nanoscale Computing and Communication*, 1–7.