

David Shriver

CONTACT INFORMATION	Computer Science Department University of Virginia Charlottesville, VA	<i>E-mail:</i> dls2fc@virginia.edu <i>Web:</i> http://cs.virginia.edu/~dls2fc
RESEARCH INTERESTS	My research interests lie in the intersection of software engineering and artificial intelligence, especially in the development of program analysis techniques for machine learning systems.	
EDUCATION	University of Virginia , Charlottesville, Virginia USA Ph.D. Student, Computer Science <ul style="list-style-type: none">• Advisors: Sebastian Elbaum and Matt Dwyer University of Nebraska-Lincoln , Lincoln, Nebraska USA M.S., Computer Science, May 2018 <ul style="list-style-type: none">• Thesis: “Assessing the Quality and Stability of Recommender Systems”• Advisor: Sebastian Elbaum B.S., Computer Engineering, May 2016	
POSITIONS HELD	Research Assistant, August 2018 - Present Department of Computer Science, University of Virginia Research Assistant, March 2014 - July 2018 Department of Computer Science and Engineering, University of Nebraska-Lincoln	
PUBLICATIONS	Conference Publications Dong Xu, David Shriver, Matthew B. Dwyer, Sebastian Elbaum. 2020. Systematic Generation of Diverse Benchmarks for DNN Verification. In Computer Aided Verification - 32nd International Conference, CAV 2020, Los Angeles, CA, USA, July 21-24, 2020, Proceedings, Part I. 97-121. https://doi.org/10.1007/978-3-030-53288-8_5 David Shriver, Sebastian Elbaum, Matthew B. Dwyer, and David S. Rosenblum. 2019. Evaluating Recommender System Stability with Influence-Guided Fuzzing. In Proceedings of the Thirty-Third AAAI Conference on Artificial Intelligence (AAAI '19). pp 4934-4942. DOI: https://doi.org/10.1609/aaai.v33i01.33014934 David Shriver. 2018. Poster: Toward the development of richer properties for recommender systems. In Proceedings of the 40th International Conference on Software Engineering: Companion Proceedings (ICSE '18). pp 173-174. DOI: https://doi.org/10.1145/3183440.3195082 David Shriver, Sebastian Elbaum, and Kathryn T. Stolee. 2017. At the end of synthesis: narrowing program candidates. In Proceedings of the 39th International Conference on Software Engineering: New Ideas and Emerging Results Track (ICSE-NIER '17). pp 19-22. DOI: https://doi.org/10.1109/ICSE-NIER.2017.7 Upcoming David Shriver, Sebastian Elbaum, Matthew B. Dwyer. 2021. Reducing DNN Properties to Enable Falsification with Adversarial Attacks. To Appear in ICSE 2021.	

HONORS AND
AWARDS

University of Nebraska-Lincoln: graduated with Highest Distinction, May 2016
UNL CSE Department: Computer Engineering Outstanding Undergraduate Senior, 2016

MEMBERSHIPS

AAAI, ACM, IEEE