

# ROBERT DICKERSON

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## EDUCATION

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<b>Doctor of Philosophy</b> ( <i>in progress</i> ), Purdue University Computer Science	August 2018 – West Lafayette, IN
<b>Bachelor of Science</b> , Truman State University Computer Science and Mathematics (Double Major)	August 2002 – May 2006 Kirksville, MO

## WORK EXPERIENCE

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<b>Lead Android Engineer</b> Mado Labs, Inc.	July 2017 – August 2018 Brooklyn, NY
<b>Senior Software Engineer</b> Riot Games	August 2016 – April 2017 Los Angeles, CA
<b>Software Engineer / Engineering Manager</b> Square, Inc.	November 2010 – August 2016 San Francisco, CA
<b>Software Specialist / Senior Software Specialist</b> NISC	June 2006 – November 2010 Lake St. Louis, MO

## TEACHING EXPERIENCE

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Spring 2024	CS456 Programming Languages	<i>Teaching Assistant</i>
Fall 2023	CS560 Reasoning About Programs	<i>Teaching Assistant</i>
Spring 2023	CS307 Software Engineering	<i>Head Teaching Assistant</i>

## PUBLICATIONS

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EGRAPHS 2023 (Workshop) **Dickerson, R.**, Delaware B. *KestRel: Relational Verification using E-Graphs for Program Alignment*. E-Graph Research, Applications, Practices, and Human-factors Symposium, 2023.

APLAS 2022 **Dickerson, R.**, Ye, Q., Zhang, M., and Delaware, B. *RHLE: Modular Deductive Verification of Relational  $\forall\exists$  Properties*. Asian Symposium on Programming Languages and Systems. Cham: Springer Nature Switzerland, 2022.

OOPSLA 2021 Zhou, Z., **Dickerson, R.**, Delaware, B., and Jagannathan, S. *Data-driven Abductive Inference of Library Specifications*. Proceedings of the ACM on Programming Languages, 5(OOPSLA).  
 Distinguished Artifact Award

## ISSUED PATENTS

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U.S. Patent 10855952, *User engagement computer system and method of using same*, Dec 1, 2020  
U.S. Patent 10496973, *Reprogrammable point-of-sale transaction flows*, Dec 3, 2019

## ACADEMIC SERVICE

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PLDI 2024 Artifact Evaluation Committee Member  
OOPSLA 2024 Artifact Evaluation Committee Member  
POPL 2023 Artifact Evaluation Committee Member  
Purdue CS Graduate Student Board, Graduate Committee Representative 2021 – 2022