Caroline Lemieux

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Univ	cation rersity of California, Ber D. in Computer Science sertation: Expanding the	•		016-2021
Un B.S	iversity of British Colun Sc. in Combined Honour	nbia s Computer Science ar		2012-2016 r Medal)
Area	s of specialization			
softw	are engineering, fuzz test	ting, program synthesi	s, specification mining	
Emp	loyment			
	stant Professor, Universi partment of Computer Sc	•	a 202.	2-Present
	doc Researcher, Microson rked at the intersection o			021-2022
	luate Student Researche r rked with Koushik Sen a		2 testing and program synthesis.	016-2021
	gle Software Engineering sted by Stefan Bucur, buil	_	to automatically generate fuzz t	2018 targets.
	osoft Research Intern rked in the CloudBuild to	eam on automated det	ection of build error anomalies.	2017
Selec	cted Awards and Scho	larships		
Goog Deme	le PhD Fellowship in Pro	gramming Technology Achievement Award (ng and programming languages and Software Engineering for service to fellow students)	2023 2019 2019 2016
Selec	cted Publications			
[1] pdf [2]	Generating Diverse Valid 45 th International Conf Neil Kulkarni*, <u>Caroli</u>	l Test Inputs with Reinflerence on Software Enne Lemieux*, Koushil	Sen. Learning Highly Recursi	gs of the
pdf		O	ational Conference on Automa	ted Soft-
[3] pdf	by Reasoning over Graph	<u>e Lemieux</u> , Koushik S s. In PACMPL, Volum	en, Ion Stoica. <i>Gauss: Program</i> e 5, Issue OOPSLA, October 202	21.
[4] pdf		s with Reinforcement Le	dhye, Koushik Sen. <i>Quickly Garning</i> . In Proceedings of the 42, July 2020.	

[5] pdf	Rohan Bavishi, Caroline Lemieux, Roy Fox, Koushik Sen, Ion Stoica. AutoPandas:
	Neural-Backed Generators for Program Synthesis. In PACMPL, Volume 3, Issue OOPSLA,
	October 2019.
[6] pdf	Rohan Padhye, Caroline Lemieux, Koushik Sen, Laurent Simon, Hayawardh Vijayaku-
	mar. FuzzFactory: Domain-Specific Fuzzing with Waypoints. In PACMPL, Volume 3, Issue
	OOPSLA, October 2019.

Domagoj Babic, Stefan Bucur, Yaohui Chen, Franjo Ivancic, Tim King, Markus Kusano, <u>Caroline Lemieux</u>, Lászó Szekeres, Wei Wang. *FUDGE: Fuzz Driver Generation at Scale*. In Proceedings of the 2019 27th ACM Joint Meeting on European Software Engineer-

In Proceedings of the 2019 27th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering, August 2019. Industry Track. **Best Paper Award, Industry Track**

- [8] Rohan Padhye, <u>Caroline Lemieux</u>, Koushik Sen, Mike Papadakis, Yves Le Traon. *Semantic Fuzzing with Zest*. In Proceedings of the 28th International Symposium on Software Testing and Analysis, July 2019. **Distinguished Artifact Award**.
- [9] Rohan Padhye, <u>Caroline Lemieux</u>, Koushik Sen. *JQF: Coverage-Guided Property-Based Testing in Java*. In Proceedings of the 28th International Symposium on Software Testing and Analysis, July 2019. Tool demo. **Best Tool Demonstration Award**.
- [10] pdf Caroline Lemieux, Koushik Sen. FairFuzz: A Targeted Mutation Strategy for Increasing Greybox Fuzz Testing Coverage. In Proceedings of the 33rd International Conference on Automated Software Engineering (ASE), September 2018.
- [11] <u>Pdf</u> Caroline Lemieux, Rohan Padhye, Koushik Sen, Dawn Song. *PerfFuzz: Automatically Generating Pathological Inputs.* In Proceedings of the 27th International Symposium on Software Testing and Analysis, July 2018. **Distinguished Paper Award.**
- [12] Pdf Caroline Lemieux, Dennis Park, Ivan Beschastnikh. General LTL Specification Mining. In Proceedings of the 30th International Conference on Automated Software Engineering (ASE), November 2015.

Recent Service

FUZZING'24 Program Committee	2024
ESEC/FSE 2023 Student Research Competition Co-Chair	2023
ICSE 2024 Program Committee	2023
ISSTA 2023 Program Committee	2022-2023
Reviewer, IEEE TSE (Transactions on Software Engineering)	2019-2023
Reviewer, ACM TOSEM (Transac. on Software Engineering and Methodology)	2021-2022
ASE 2022 Review Process Co-Chair	2022
ESEC/FSE 2022 Diversity & Inclusion and Hybridization Co-Chair	2022
FUZZING'22 Program Committee	2022
ISSTA 2022 Program Committee	2022
PLDI 2022 Program Committee	2021-2022
Distinguished Reviewer Award	
ASPLOS 2021 External Review Committee	2020
OOPSLA 2020 Artifact Evaluation Committee	2020
Distinguished Artifact Reviewer Award	

Caroline Lemieux - CV