	ALAN ROMANO		
https://alan-romano.github.io/ ajromano@usc.edu			(201) 921-7284
EDUCATIO	ON		
PhD	University of Southern California Dr. Weihang Wang		2022 – Present
	Department of Computer	Science	
	University at Buffalo, SU Dr. Weihang Wang Department of Computer	JNY (GPA: 3.95) Science and Engineering	2018 – 2022
BS	New Jersey Institute of Technology Summa Cum Laude (GPA: 3.96) Minor in Applied Mathematics College of Computing Sciences, Albert Dorman Honors College		2014 – 2018
Honors A	AND AWARDS		
	Arthur A. Schomburg Fellowship		
	2022 IEEE S&P Travel Grant Award		
	UB CSE PhD Best Research Award		
2021 ACM CCS Travel Grant Award			2021
NJIT Dean's List			2014 - 2018
2 nd Place Presentation in Computing – Philadelphia AMP NJIT Provost Summer Research Fellowship			2016 2016
Ronald E. McNair Post-Baccalaureate Achievement Program		2016	
		w. o	2010
	HEXPERIENCE	Duffalo NV	2019 – 2022
University at Buffalo, SUNY, Buffalo, NY Research Assistant, Dr. Weihang Wang			2019 – 2022
Investigate WebAssembly development and debugging methods			
•	 Design and implement WebAssembly development tools Set up and lead experiments for WebAssembly data collection 		
•	Set up and lead experime	ents for WebAssembly data collection	
New Jersey Institute of Technology, Newark, NJ Undergraduate Researcher, Dr. Michael Bieber			2016 – 2018
Led a team of four programmers to develop Participatory			
	Learning experimental education platform		
•	0 1	ages using React and Node.js to increase	
	flexibility of assignment		
•	•	d design and implementation	
	.		
TEACHING	G EXPERIENCE		
	G EXPERIENCE ersity at Buffalo, SUNY, I	Buffalo, NY	2018 – 2019

- Assisted in managing CSE 116 entry-level and CSE 542 master's-level courses
- Clarified any questions that students would have in-class
- Led in-person classes during professor absence

PROFESSIONAL EXPERIENCE

United Parcel Service, Mahwah, NJ

2017 - 2018

Enterprise Business Intelligence Intern, Meryl Aronowitz

- Extended functionality of existing online management system used to maintain the allowed standards for all corporate IT software and hardware procurement and usage
- Collaborated with team to convert legacy website from ColdFusion to .NET
- Implemented secure file upload functionality into website

PUBLICATIONS

- **A. Romano**, D. Lehmann, M. Pradel, W. Wang, "Wobfuscator: Obfuscating JavaScript Malware via Opportunistic Translation to WebAssembly," 2022 43rd IEEE Symposium on Security and Privacy (S&P), 2022, pp. 1574-1589, doi:10.1109/SP46214.2022.9833626. (acceptance: 15.2%, 54/355) [Available on Personal Website]
- **A. Romano**, X. Liu, Y. Kwon, W. Wang, "An Empirical Study of Bugs in WebAssembly Compilers," 2021 36th IEEE/ACM International Conference on Automated Software Engineering (ASE), 2021, pp. 42-54, doi: 10.1109/ASE51524.2021.9678776. (acceptance: 19.2%, 82/427) [Available on Personal Website]
- **A. Romano**, Z. Song, S. Grandhi, W. Yang and W. Wang, "An Empirical Analysis of UI-Based Flaky Tests," *2021 IEEE/ACM 43rd International Conference on Software Engineering (ICSE)*, 2021 pp. 1585-1597. doi: 10.1109/ICSE43902.2021.00141 (acceptance: 23%, 138/602) [Available on Arvix]
- **A. Romano,** Y. Zheng and W. Wang, "MinerRay: Semantics-Aware Analysis for Ever-Evolving Cryptojacking Detection," 2020 35th IEEE/ACM International Conference on Automated Software Engineering (ASE), 2020, pp. 1129-1140. doi: 10.1145/3324884.3416580 (acceptance: 22.5%, 93/414) [Available on Personal Website]
- **A. Romano** and W. Wang, "WASim: Understanding WebAssembly Applications through Classification," 2020 35th IEEE/ACM International Conference on Automated Software Engineering (ASE), 2020, pp. 1321-1325. doi: 10.1145/3324884.3415293 (acceptance: 62.5%, 18/29) [Available on Personal Website]
- **A. Romano** and W. Wang, "WasmView: Visual Testing for WebAssembly Applications," 2020 IEEE/ACM 42nd International Conference on Software Engineering: Companion Proceedings (ICSE-Companion), 2020, pp. 13-16. doi: 10.1145/3377812.3382155 (acceptance: 33%, 25/75) [Available on Personal Website]

PRESENTATIONS

"Wobfuscator: Obfuscating JavaScript Malware via Opportunistic Translation to WebAssembly," 43rd IEEE Symposium on Security and Privacy (S&P), May 2022.

- "An Empirical Study of Bugs in WebAssembly Compilers," 36th IEEE/ACM International Conference on Automated Software Engineering (ASE), November 2021.
- "An Empirical Analysis of UI-Based Flaky Tests," 43rd International Conference on Software Engineering (ICSE), May 2021.
- "MinerRay: Semantics-Aware Analysis for Ever-Evolving Cryptojacking Detection," 35th IEEE/ACM International Conference on Automated Software Engineering (ASE), September 2020.
- "WASim: Understanding WebAssembly Applications through Classification," 35th IEEE/ACM International Conference on Automated Software Engineering (ASE), September 2020.
- "WasmView: Visual Testing for WebAssembly Applications," 42nd Annual International Conference on Software Engineering (ICSE), July 2020.
- "Probabilistic Testing in the Presence of Flaky Tests," Third Annual Facebook Testing and Verification Symposium, November 2019.
- "Building a Flexible and Collaborative Online Learning System," 5th Annual NJIT Innovation Day, April 2017.
- "Building a Flexible and Collaborative Online Learning System," Philadelphia AMP 18th Annual Research Symposium, October 2016.
- "Building a Flexible and Collaborative Online Learning System," NJIT Ninth International Summer Research Symposium, July 2016.