Yara**Awad** PhD Candidate

Contact awadyn@bu.edu

Education

Git github.com/awadyn

Equication		
PhD in Computer Science	Boston University, Boston, MA, USA	
	ve micro-architectures in order optimize-out	
. , .	sforming the "general-purpose" to "special-	
purpose" in its own turf.		
	Seminar on Programmable Smart Machines,	
• • • •	raphy, Operating Systems, Distributed Sys-	
terns, Formai Methods and Ven	incation, Computational Complexity	
BS in Computer Science	American University of Beirut, Beirut, Lebanon	
Relevant Coursework: Operat	ing Systems, Computer Architecture, Combi-	
	arning, Neurobiology, Probability and Statis-	
tics, Engineering Electronics		
Exchange Program	Boston University, Boston, MA, USA	
=xenange i regiani		
	 PhD in Computer Science Adviser: Professor Jonathan A Lab: Scalable Elastic Systems A Research Direction: The des systems that 1) recognize structr putation and 2) exploit alternati said redundancy, thereby transpurpose" in its own turf. Graduate-Level Coursework: Advanced Algorithms, Cryptog tems, Formal Methods and Verit BS in Computer Science Relevant Coursework: Operational Structures, Machine Le tics, Engineering Electronics 	

Research Experience

Sept 2017 -Present

Interests

Graduate Student Scalable Elastic System Architecture (SESA)

Boston University, Boston, MA

Computer Systems and Architecture Hybrid Models of Computation Smart Systems Energy Proportional Computation Neuromorphic Computing

on n ns		context of today's versatile and large app durable, memory-aware, and energy-awa	
al on	Sept 2017 -		
ic	Present	Graduate Student	Boston University, Boston, MA
ng		Programmable Smart Machines Lab (Incorporate ideas related to learning, sig	gnal processing, and neuro-morphic

Incorporate ideas related to learning, signal processing, and neuro-morphic computation into the building and design of systems that can learn and evolve in order to better serve a non-deterministic external world.

Discuss, survey, implement, and test systems that are built to serve in the

Familiar Systems Unix EbbRT GNU/Linux Rump	Feb 2017 - July 2017	Researcher American University of Beirut, Beirut, Lebanon Security Lab Modeling Malware as a Language Designed a new approach to static malware analysis that treats malware analysis as natural language analysis through modeling malware as a language and assessing the feasibility of finding semantics in instances of that language.
Om System Programming	Jan 2015 - May 2015	Visiting Researcher Boston University, Boston, MA Programmable Smart Machines Lab (PSML) Automatically Scalable Computation (ASC) Studied a model system that takes an alternative approach to automatic par- allelization through programmable tunnelling, by means of predictive parti- tioning of a program's trajectory and speculative execution of that trajectory's partitions.
Go C C++ Bash	April 2014	Undergraduate Researcher American University of Beirut, Beirut, Lebanon Organic Chemistry Lab with Professor Kamal Bouhadir (American University of Beirut) Synthesized non-conjugated dienes attached to nucleobases and studied their potential as biosensors in therapeutic applications.

Professional Development

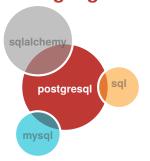
Other Programming	July 2020	ATC attendee
Matlab	Oct 2018	OSDI attendee
Java Python Matlab	May 2018	ICC-IEEE presenter: Mode
	Oct 2017	Massachusetts attendee
Web Development	Jan 2016	Winter School Beirut, Lebanon attendee and pr
Javascript	May 2015	Boston Univer science of Cor attendee
HTML CSS Angular2 PHP	Tea chi	ng Exper
Elm	Fall 2018, Spring 2019 Summer 201 Spring 2020	

	attendee	
Oct 2018	OSDI	Carlsbad, CA
	attendee	
May 2018	ICC-IEEE	Kansas City, MO
	presenter: Modeling Malware as a Language	
Oct 2017	Massachusetts Open Cloud (MOC) Workshop attendee	Boston University, Boston, MA
Jan 2016	Winter School for Computational Neuroscien Beirut, Lebanon	Ce American University of Beirut,
	attendee and project presenter	
May 2015	Boston University Symposium on Physics,	Mathematics, and Neuro-
	science of Cortical Function attendee	Boston University, Boston, MA
Teachi	ing Experience	
Fall 2018,	Teaching Fellow	Boston University, Boston, MA

Virtual

ing 2019,	CS210: Computer Systems
nmer 2019,	Introduces fundamental hardware and software concepts used in sys-
ing 2020	tems programming.

Database Management Systems and Languages



Work Experience

Sept 2016 -

May 2017 Software Engineer Interactive Life Inc., Beirut, Lebanon Interactive Life Inc is a startup that offers a mobile application publishing platform that anyone can use to create a mobile application.

Sept 2013 -

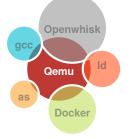
Aug 2014

Dancer Sima Dance Company, Beirut, Lebanon Sima Dance Company is a Syrian contemporary and jazz dance company.

Publications

James Cadden, Thomas Unger, Yara Awad, Han Dong, Orran Krieger, and Jonathan Appavoo. 2020. SEUSS: Skip Redundant Paths to Make Serverless Fast. In Proceedings of the Fifteenth European Conference on Computer Systems (EuroSys '20).

Tools/Platforms



Y. Awad, M. Nassar and H. Safa, "Modeling Malware as a Language," 2018 IEEE International Conference on Communications (ICC), Kansas City, MO, 2018

Archive

Dong, H., Arora, S., Awad, Y., Unger, T., Krieger, O., Appavoo, J. Slowing Down for Performance and Energy: An OS-Centric Study in Network Driven Workloads.

Honors & Awards

May 2020 **College of Arts and Sciences Outstanding Teaching Award Boston** University, Boston, MA May 2017 Mark Sawaya Excellence Award American University of Beirut, Beirut, Lebanon April 2014 Boston University Exchange Scholarship American University of Beirut, Beirut, Lebanon Dec 2013 Arab's Got Talent: First Place Act Beirut, Lebanon

Natural Languages Enalish **** Arabic **** French ****