

Sarah Fakhoury

Ph.D. Student

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RESEARCH INTERESTS

Empirical Software Engineering, Software Quality and Maintenance, Analysis of Source Code Lexicon, Natural Language Processing, Program Comprehension, and Biometrics.

PUBLICATIONS

Peer Reviewed Conference Papers

- [C1] Sarah Fakhoury. 2018. Moving Towards Objective Measures of Program Comprehension. In Proceedings of the 26th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)—Doctoral Symposium, to appear.
- [C2] Sarah Fakhoury, Yuzhan Ma, Venera Arnaoudova, and Olusola Adesope. 2018. The effect of poor source code lexicon and readability on developers' cognitive load. In Proceedings of the International Conference on Program Comprehension (ICPC), pp. 286–296.
- [C3] Yuzhan Ma, Sarah Fakhoury, Mike Christensen, Venera Arnaoudova, Waleed Zogaan, and Mehdi Mirakhorli. 2018. Automatic classification of software artifacts in open-source applications. In Proceedings of the Working Conference on Mining Software Repositories (MSR), pp. 414–425.
- [C4] Sarah Fakhoury, Venera Arnaoudova, Cedric Noiseux, Foutse Khomh, and Giuliano Antoniol. 2018. Keep it simple: is deep learning good for linguistic smell detection? In Proceedings of the International Conference on Software Analysis, Evolution, and Reengineering (SANER)—REproducibility Studies and NEgative Results (RENE) Track, pp. 602–611.

EDUCATION

Ph.D. in Computer Science

School of Electrical Engineering and Computer Science
Washington State University
Pullman, Washington, U.S.A.

Fall 2016 - Present

B.S. in Computer Science

Department of Computer Science
American University of Beirut
Beirut, Lebanon

Fall 2013 – Spring 2016

TEACHING EXPERIENCE

Teaching Assistant for CPTS 487: *Software Design and Architecture*
Washington State University
Pullman, Washington, U.S.A.

Spring 2018

Teaching Assistant for CPTS 451: *Introduction to Database Systems*
Washington State University
Pullman, Washington, U.S.A.

Spring 2018

Teaching Assistant for CPTS 223: *Advanced Algorithms C/C++*
Washington State University
Pullman, Washington, U.S.A.

Fall 2017

WORK EXPERIENCE

<p>Research Assistant Software Engineering Laboratory School of Electrical Engineering and Computer Science Washington State University Pullman, Washington, U.S.A.</p>	Fall 2016 – Present
<p>Teaching Assistant Software Engineering Laboratory School of Electrical Engineering and Computer Science Washington State University Pullman, Washington, U.S.A.</p>	Fall 2017 – Spring 2018
<p>Software Development Intern Business Empower Beirut, Lebanon</p>	06/2015 – 08/2015
<p>Research Assistant Career Placement Services American University of Beirut Beirut, Lebanon</p>	05/2014 – 11/2014

PRESENTATIONS AND POSTERS

<p>The Effect of Poor Source Code Lexicon on Developers' Cognitive load. Talk to be presented to Dr. Felienne Hermans' Psychology of Programming Class TU Delft Delft, Netherlands</p>	11/2018
<p>A Replication of "Easy over Hard: A Case Study on Deep Learning". Talk to be presented at Recognizing and Rewarding Open Science in Software Engineering (ROSE) Lake Buena Vista, FL, USA</p>	11/2018
<p>Moving Towards Objective Measures of Program Comprehension. Doctoral Symposium paper/poster to be presented at the ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) Lake Buena Vista, FL, USA</p>	11/2018
<p>The effect of poor source code lexicon on developers' cognitive load. Paper presented at the International Conference on Program Comprehension (ICPC) Gothenburg, Sweden</p>	05/2018
<p>Automatic classification of software artifacts in open-source applications. Paper presented at the Working Conference on Mining Software Repositories (MSR) Gothenburg, Sweden</p>	05/2018
<p>The effect of poor source code lexicon on developers' cognitive load Poster presentation at the Washington State University Graduate Research Exposition Pullman, Washington, U.S.A.</p>	03/2018
<p>Keep it simple: is deep learning good for linguistic smell detection? Paper presented at the International Conference on Software Analysis, Evolution, and Reengineering (SANER) Campobasso, Italy</p>	03/2018

APPLICABLE COURSE WORK

<u>Course Title</u>	<u>Credits</u>	<u>Grade</u>
CPT_S 515 Advanced Algorithms	3.00	A
CPT_S 570 Machine Learning	3.00	A
CPT_S 581 Software Maintenance	3.00	A
CPT_S 582 Software Testing	3.00	A
CMPS 258 Programming Languages	3.00	94
CMPS 256 Algorithms and Data Structures	3.00	94

AWARDS AND ACHIEVEMENTS

ESEC/FSE 2018 NSF Travel Grant	11/2018
SWAN 2018 NSF Student Travel grant	11/2018
Grace Hopper Celebration Scholar	09/2018
Distinguished Paper Award for [C2] International Conference on Program Comprehension Gothenburg, Sweden	05/2018
MurExcellence Grant for Academic Achievement MUREX Paris, France	06/ 2016
Award for the Best Computer Science Final Year Project American University of Beirut Beirut, Lebanon	05/ 2016

SERVICE

Reviewer

Software Quality Journal (SQJ): 2018

External Reviewer

International Conference on Software Maintenance and Evolution (ICSME): 2018
 International Working Conference on Source Code Analysis and Manipulation (SCAM): 2018
 Working Conference on Mining Software Repositories (MSR): 2018
 International Conference on Program Comprehension (ICPC): 2017, 2018
 International Conference on Software Analysis, Evolution, and Reengineering (SANER): 2017, 2018

TECHNICAL SKILLS

Programming Languages	Java, C#, C++, Python, R, JavaScript
Web Development	ASP.NET, HTML, CSS, PHP
Database Management	SQL, PostgreSQL
Software & Other	Minitab, fNIRSoft, Weka, Git, LaTeX

LANGUAGE SKILLS

English Native Language
Arabic Working Proficiency

MEMBERSHIPS

Institute of Electrical and Electronics Engineers (IEEE)	2017 – Present
Association for Computing Machinery (ACM)	2017 – Present