Kevin Moran, Ph.D.

Room 4448, Nguyen Engineering Building, Fairfax, VA 22030

 ¶ Google Scholar | □ (703)-993-6826 | ■ kpmoran@gmu.edu | ♠ www.kpmoran.com

RESEARCH INTERESTS

Software engineering, mobile software development & security, machine learning applications to software engineering, software testing, software data analytics, source code analysis, software design, software traceability

PROFESSIONAL EXPERIENCE

Assistant Professor, George Mason University, Department of Computer Science	Fall 2020-Present
Research Assistant Professor, William & Mary, Department of Computer Science	2019-2020
Post-Doctoral Fellow, William & Mary, Department of Computer Science	2018-2019
Research Assistant, William & Mary, Department of Computer Science	2015-2018
System Administrator, William & Mary, Department of Computer Science	2013-2015
EDUCATION	
William & Mary	2018
Ph.D., Computer Science	

Dissertation Title: Automating Software Development for Mobile Computing Platforms

Advisor: Dr. Denys Poshyvanyk

William & Mary 2015

M.S., Computer Science

Thesis Title: Enhancing Bug Reports for Mobile Apps

Advisor: Dr. Denys Poshyvanyk

2013 College of the Holy Cross

B.A., Physics, Computer Science Minor

Advisor: Dr. Timothy Roach

SELECTED AWARDS

ACM SIGSOFT Distinguished Paper Award at ICSE'20	May 2020

June 2019 ACM SIGSOFT Distinguished Paper Award at ESEC/FSE'19

March 2019 Best Paper Award at CODASPY'19

RESEARCH FUNDING

Awarded Funding:

NSF SaTC Program 2022-2025

• Title: "Collaborative Research: CPS: Medium: Enabling Data-Driven Security and Safety Analyses for Cyber-Physical Systems"

- PI: Adwait Nadkarni; PI: Kevin Moran (GMU), co-PI: Denys Poshyvanyk (W&M)
- Award CNS-2132285 Total Award Amount: \$998,979

NSF SHF Program 2020-2024

- Title: "SHF: Medium: Bug Report Management 2.0"
- PIs: Kevin Moran (GMU), Andrian Marcus (UT Dallas), Denys Poshyvanyk (W&M) co-PI: O. Chaparro (W&M)
- Award CCF-1955853 Total Award Amount: \$1,199,998 (GMU's share: \$256,559)

NSF SHF Program 2020-2023

- Title: "SHF: Small: Towards a Holistic Causal Model for Continuous Software Traceability"
- PIs: *Kevin Moran* (GMU), Denys Poshyvanyk (W&M)
- Award CCF-2007246 Total Award Amount: \$500,000 (GMU's share: \$269,807)

NSF EAGER Program 2019-2020

- Title: "EAGER: Mapping Future Synergies between Deep Learning and Software Engineering"
- PI: Denys Poshyvanyk; co-PI: Kevin Moran
- Award CCF-1927679, totaling \$82,828

Cisco Advanced Security Research Group Grant

2019-2020

- Title: "Identifying and Tracing Security Related Software Requirements"
- PI: Denys Poshyvanyk; co-PI: Kevin Moran
- Award totaling \$100,000

REFERED JOURNAL PUBLICATIONS

- [J1] A. S Ami, K. Kafle, K. Moran, A. Nadkarni, and D. Poshyvanyk, "Systematic Mutation-based Evaluation of Security-focused Static Analysis Tools for Android," in ACM Transactions on Privacy and Security (TOPS), accepted 2021
- [J2] K. Kafle, K. Moran, S. Manandhar, A. Nadkarni, and D. Poshyvanyk, "Security in Centralized Data Store-based Home Automation Platforms: A Systematic Study of Nest and Hue," in ACM Transactions on Cyber Physical Systems (TCPS), accepted 2021
- [J3] C. Escobar-Velásquez, M. Linares-Vásquez, G. Bavota, M. Tufano, K. Moran, M. Di Penta, C. Vendome, C. Bernal-Cárdenas, and D. Poshyvanyk, "Enabling Mutant Generation for Open- and Closed-Source Mobile Apps," in IEEE Transactions on Software Engineering (TSE), accepted 2020
- [J4] K. Moran, C. Bernal-Cárdenas, M. Curcio, R. Bonett, and D. Poshyvanyk, "Machine Learning-Based Prototyping of Graphical User Interfaces for Mobile Apps," in IEEE Transactions on Software Engineering (TSE), accepted 2018 – presented as a Journal First Paper at FSE'18
- [J5] Q. Luo, K. Moran, L. Zhang, and D. Poshyvanyk, "How Do Static and Dynamic Test Case Prioritization Techniques Perform on Modern Software Systems? An Extensive Study on GitHub Projects," IEEE Transactions on Software Engineering (TSE), accepted 2018

[J6] K. Wallace, K. Moran, E. Novak, G. Zhou, and K. Sun, "Toward Sensor-Based Random Number Generation for Mobile and IoT Devices," in *IEEE Internet of Things Journal (IoT)*, vol. 3, no. 6, pp. 1189-1201, Dec. 2016.

REFERED CONFERENCE PUBLICATIONS

- [C1] N. Cooper, C. Bernal-Cárdenas, O. Chaparro, **K. Moran**, and D. Poshyvanyk, "It Takes Two to Tango: Combining Visual and Textual Information for Detecting Duplicate Video-Based Bug Reports," in *Proceedings of the 42nd IEEE/ACM International Conference on Software Engineering (ICSE'21)*, Madrid, Spain, 2021, to appear.
- [C2] S. Manandhar, K. Moran, K. Kafle, R. Tang, D. Poshyvanyk, and A. Nadkarni, "Towards a Natural Perspective of Smart Homes for Practical Security and Safety Analyses," in *Proceedings of the 41st IEEE Symposium on Security & Privacy (S&P'20)*, San Francisco, California, 2020. (12.3% acceptance rate)
- [C3] K. Moran, D. Nader Palacio, C. Bernal-Cárdenas, D. McCrystal, D. Poshyvanyk, C. Shenefiel, and J. Johnson, "Improving the Effectiveness of Traceability Link Recovery using Hierarchical Bayesian Networks," in *Proceedings of the 42nd IEEE/ACM International Conference on Software Engineering (ICSE'20)*, Seoul, South Korea, 2020, pp. 873-885. (20% acceptance rate)
- [C4] C. Bernal-Cárdenas, N. Cooper, K. Moran, O. Chaparro, A. Marcus, and D. Poshyvanyk, "Translating Video Recordings of Mobile Apps into Replayable Scenarios," in *Proceedings of the 42nd IEEE/ACM International Conference on Software Engineering (ICSE'20)*, Seoul, South Korea, 2020, pp. 309-321. (20% acceptance rate) ACM SIGSOFT Distinguished Paper Award
- [C5] C. Watson, M. Tufano, **K. Moran**, G. Bavota, and D. Poshyvanyk, "On Learning Meaningful Assert Statements for Unit Test Cases," in *Proceedings of the 42nd IEEE/ACM International Conference on Software Engineering (ICSE'20)*, Seoul, South Korea, 2020, 1398-1409. (20% acceptance rate)
- [C6] O. Chaparro, C. Bernal-Cárdenas, J. Lu, K. Moran, A. Marcus, M. Di Penta, D. Poshyvanyk, and V. Ng, "Assessing the Quality of the Steps to Reproduce in Bug Reports," in *Proceedings of the 27th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE'19)*, Tallinn, Estonia, 2019, pp. 86-96. (24% acceptance rate) ACM SIGSOFT Distinguished Paper Award
- [C7] K. Kafle, **K. Moran**, S. Manandhar, A. Nadkarni, and D. Poshyvanyk, "A Study of Data Store-based Home Automation," in Proceedings of the 9th ACM Conference on Data and Application Security and Privacy (CODASPY'19), Dallas, TX, 2019, pp. 73-84. (23% acceptance rate) Best Paper Award
- [C8] K. Moran, C. Watson, J. Hoskins, G. Purnell, and D. Poshyvanyk, "Detecting and Summarizing GUI Changes in Evolving Mobile Apps," in *Proceedings of the 33rd IEEE/ACM International Conference on Automated Software Engineering (ASE'18)*, Montpellier, France, 2018, pp. 543-553. (21% acceptance rate)
- [C9] Q. Luo, K. Moran, D. Poshyvanyk, and M. Di Penta, "Assessing Test Case Prioritization on Mutants and Real Faults," in *Proceedings of the 34th IEEE International Conference on Software Maintenance and Evolution* (ICSME'18), Madrid, Spain, 2018, pp. 240-251. (26% acceptance rate)
- [C10] R. Bonett, K. Kafle, K. Moran, A. Nadkarni, and D. Poshyvanyk, "Discovering Flaws in Security-Focused Static Analysis Tools for Android using Systematic Mutation," in *Proceedings of the 27th USENIX Security Symposium* (USENIX Security '18), Baltimore, MD, 2018, pp. 1263-1280. (19% acceptance rate)
- [C11] **K. Moran**, B. Li, C. Bernal-Cárdenas, D. Jelf, and D. Poshyvanyk, "Automated Reporting of GUI Design Violations for Mobile Apps," in *Proceedings of the 40th IEEE/ACM International Conference on Software Engineering (ICSE'18)*, Gothenburg, Sweden, 2018, pp. 165-175. (21% acceptance rate)

- [C12] **K. Moran**, C. Bernal-Cárdenas, M. Linares-Vásquez, and D. Poshyvanyk, "Overcoming Language Dichotomies: Toward Effective Program Comprehension for Mobile App Development," in *Proceedings of the 26th IEEE/ACM International Conference on Program Comprehension (ICPC'18*), Invited Paper, Gothenburg, Sweden, 2018, pp. 7-18.
- [C13] M. Linares-Vásquez, C. Bernal-Cárdenas, **K. Moran**, and D. Poshyvanyk, "How do Developers Test Android Applications?," in *Proceedings of the 33rd IEEE International Conference on Software Maintenance and Evolution (ICSME'17*), Industry Track, Shanghai, China, 2017, pp. 613-622.
- [C14] M. Linares-Vásquez, K. Moran, and D. Poshyvanyk, "Continuous, Evolutionary and Large-Scale: A New Perspective for Automated Mobile App Testing," in Proceedings of the 33rd IEEE International Conference on Software Maintenance and Evolution (ICSME'17), Shanghai, China, 2017, pp. 399-410. (27% acceptance rate)
- [C15] M. Linares-Vásquez, G. Bavota, M. Tufano, **K. Moran**, M. Di Penta, C. Vendome, C. Bernal-Cárdenas, and D. Poshyvanyk, "Enabling Mutation Testing for Android Apps," in *Proceedings of the 11th Joint Meeting of the European Software Engineering Conference and the 25th ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE'17), Paderborn, Germany, 2017, pp. 233-244. (24% acceptance rate)*
- [C16] Q. Luo, K. Moran, and D. Poshyvanyk, "A Large-scale Empirical Comparison of Static and Dynamic Test Case Prioritization Techniques," in *Proceedings of the 24th ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE'16)*, Seattle, WA, 2016, pp. 559-570. (27% acceptance rate)
- [C17] K. Moran, M. Linares-Vásquez, C. Bernal-Cárdenas, C. Vendome, and D. Poshyvanyk, "Automatically Discovering, Reporting and Reproducing Android Application Crashes," in *Proceedings of the 9th IEEE International Conference on Software Testing, Verification, and Validation (ICST'16)*, Chicago, IL, 2016, pp. 33-44. (27% acceptance rate)
- [C18] **K. Moran**, M. Linares-Vásquez, C. Bernal-Cárdenas, and D. Poshyvanyk, "Auto-Completing Bug Reports for Android Applications," in *Proceedings of the 10th Joint Meeting of the European Software Engineering Conference and the 23rd ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE'15), Bergamo, Italy, 2015, pp. 673-686. (25% acceptance rate)*
- [C19] M. Linares-Vásquez, M. White, C. Bernal-Cárdenas, K. Moran, and D. Poshyvanyk, "Mining Android App Usages for Generating Actionable GUI-based Execution Scenarios," in *Proceedings of the 12th IEEE Working Conference on Mining Software Repositories* (MSR'15), Florence, Italy, 2015, pp. 111-122. (30% acceptance rate)

REFEREED SHORT CONFERENCE PUBLICATIONS

- [S1] A. S Ami, K. Kafle, **K. Moran**, A. Nadkarni, and D. Poshyvanyk, "Demo: Mutation-based Evaluation of Security-focused Static Analysis Tools for Android," in *Proceedings of the 42nd IEEE/ACM International Conference on Software Engineering (ICSE'21)*, Formal Research Tool Demonstration, Madrid, Spain, 2021, to appear.
- [S2] M. Havranek, C. Bernal-Cárdenas, N. Cooper, O. Chaparro, D. Poshyvanyk, and K. Moran, "V2S: A Tool for Translating Video Recordings of Mobile Apps into Replayable Scenarios," in *Proceedings of the 42nd IEEE/ACM International Conference on Software Engineering (ICSE'21)*, Formal Research Tool Demonstration, Madrid, Spain, 2021, to appear.
- [S3] D. Nader Palacio, D. McCrystal, **K. Moran**, C. Bernal-Cárdenas, D. Poshyvanyk, and C. Shenefiel, "Learning to Identify Security-Related Issues Using Convolutional Neural Networks," in Proceedings of the 35th International Conference on Software Maintenance and Evolution (ICSME'19), Short Paper Track, Cleveland, OH, 2019, to appear 4 pages (56% acceptance rate)

- [S4] C. Bernal-Cárdenas, K. Moran, M. Tufano, Z. Liu, L. Nan, Z. Shi, and D. Poshyvanyk, "Guigle: A GUI Search Engine for Android Apps," in Proceedings of the 41st ACM/IEEE International Conference on Software Engineering (ICSE'19), Formal Research Tool Demonstration, Montréal, QC, Canada, 2019, pp. 71-74. (47% acceptance rate)
- [S5] **K. Moran**, "Automating Software Development for Mobile Computing Platforms," in *Proceedings of the* 34th IEEE International Conference on Software Maintenance and Evolution (ICSME'18), Doctoral Symposium Post Doctoral Track, Madrid, Spain, 2018, pp. 749-754.
- [S6] **K. Moran**, M. Tufano, C. Bernal-Cárdenas, M. Linares-Vásquez, G. Bavota, C. Vendome, M. Di Penta, and D. Poshyvanyk, "MDroid+: A Mutation Testing Framework for Android," in *Proceedings of the 40th IEEE/ACM International Conference on Software Engineering (ICSE'18)*, Formal Research Tool Demonstration, Gothenburg, Sweden, 2018, pp. 33-36. (35% acceptance rate)
- [S7] K. Moran, M. Linares-Vásquez, C. Bernal-Cárdenas, C. Vendome, and D. Poshyvanyk, "CrashScope: A Practical Tool for Automated Testing of Android Applications," in *Proceedings of the 39th IEEE/ACM International Conference on Software Engineering (ICSE'17)*, Formal Research Tool Demonstration, Buenos Aires, Argentina, 2017, pp. 15-18. (31% acceptance rate)
- [S8] **K. Moran**, M. Linares-Vásquez, and D. Poshyvanyk, "Automated GUI Testing of Android Apps: From Research to Practice," in *Proceedings of the 39th IEEE/ACM International Conference on Software Engineering (ICSE'17)*, Technical Briefing, Buenos Aires, Argentina, 2017, pp. 505-506.
- [S9] K. Moran, R. Bonnet, C. Bernal-Cárdenas, B. Otten, D. Park, and D. Poshyvanyk, "On-Device Bug Reporting for Android Applications," in *Proceedings of the 4th IEEE/ACM International Conference on Mobile Software Engineering and Systems* (MOBILESoft'17), Tool Demos and Mobile Apps Track, Buenos Aires, Argentina, 2017, pp. 215-216. (44% acceptance rate)
- [S10] **K. Moran**, M. Linares-Vásquez, and D. Poshyvanyk, "Automated GUI Testing of Android Apps: From Research to Practice," in *Proceedings of the 32nd IEEE International Conference on Software Maintenance and Evolution (ICSME'16)*, Technical Briefing, Raleigh, NC, 2016, pp. 648-648.
- [S11] **K. Moran**, M. Linares-Vásquez, C. Bernal-Cárdenas, and D. Poshyvanyk, "FUSION: A Tool for Facilitating and Augmenting Android Bug Reporting," in *Proceedings of the 38th IEEE/ACM International Conference on Software Engineering (ICSE'16)*, Formal Research Tool Demonstration, Austin, TX, 2016, pp. 609-612. (32% acceptance rate)
- [S12] **K. Moran**, "Fixing Bug Reporting for Mobile and GUI-Based Applications," in *Proceedings of the 38th IEEE/ACM International Conference on Software Engineering (ICSE'16)*, Doctoral Symposium, Austin, TX, 2016, pp. 831-834. (22% acceptance rate)

ADDITIONAL AWARDS & FELLOWSHIPS

S. Laurie Sanderson Award for Excellence in Undergraduate Mentoring

March 2018

William & Mary

Graduate Student Award for Excellence in Scholarship

March 2018

William & Mary

NASA Graduate Research Fellowship

2015-2017

• Virginia Space Grant Consortium (VSGC)

NSF Student Travel Awards for ESEC/FSE'15 & ICSE'16

August 2015 & May 2016

• National Science Foundation

ACM Student Research Competition Graduate Student Finalist (ESEC/FSE'15)

November 2015

Association for Computing Machinery & Microsoft

NASA Summer Research Fellowship

Summer 2011

• Massachusetts Space Grant Consortium (MASGC)

Eagle Scout Award

2007-present

• Boy Scouts of America

TEACHING EXPERIENCE

Instructor, George Mason University:

Term	Subject Code	Enrollment	Instructor Rating	Course Rating
Fall 2020	SWE 632: Design and Development of User Interfaces	30	4.75	4.81

Teaching Assistant, William & Mary:

Software Engineering (CS 635: Graduate)

Fall 2015, Fall 2016, Spring 2018

• Invited lecturer and student research project director

Software Engineering (CS 435: Undergraduate)

Spring 2016, Fall 2017, Spring 2017, Fall 2018, Fall 2019

Invited lecturer and student project director

STUDENT MENTORSHIP

Dissertation Committee Chair		
In Progress S. M. Hasan Mansur	Ph.D. in CS, George Mason University	Fall 2020 – Present
Junayed Mahmud	Ph.D. in CS, George Mason University	Spring 2021 – Present
Sabiha Salma	Ph.D. in CS, George Mason University	Spring 2021 – Present
Dissertation Committee Member		
Emad Aghayi	George Mason University	Ph.D., expected 2022
Master's Student Mentees		
George Purnell	William & Mary, M.S. in CS	2018-2019
<u>Undergraduate Mentees</u>		
Michael Curcio	William & Mary, B.S. in CS	2017-2018
Zack H'Doubler	William & Mary, B.S. in CS	2017
Daniel McCrystal	William & Mary, B.S. in CS	2018-2019
Ali Yachnes	William & Mary, B.S. in CS	2018-2019
Dan Jelf	William & Mary, B.S. in CS	2017-2018
Zichang (Emma) Liu	William & Mary, B.S. in CS (now Ph.D.	2018-2019
	student at Rice University)	

FORMAL CONFERENCE PRESENTATIONS & INVITED TALKS

Research Paper Presentation – ICSE'20, Virtual, (originally Seoul South Korea) • "Improving Traceability Link Recovery using Hierarchical Bayesian Networks"	July 8 th , 2020
 Invited Seminar Talk – University of Notre Dame "Toward Practical Automation for Software Engineering" 	March 5 th , 2020
 Invited Seminar Talk – University of Minnesota "Toward Practical Automation for Software Engineering" 	March 2 nd , 2020
 Invited Seminar Talk – University of Rhode Island "Toward Practical Automation for Software Engineering" 	February 26 th , 2020
 Invited Seminar Talk – University of Maryland Baltimore County "Toward Practical Automation for Software Engineering" 	February 18 th , 2020
 Invited Seminar Talk – Michigan State University "Toward Practical Automation for Software Engineering" 	February 14 th , 2020
 Invited Seminar Talk – George Mason University "Toward Practical Automation for Software Engineering" 	February 6 th , 2020
 Invited Seminar Talk – Loyola University Chicago "Toward Practical Automation for Software Engineering" 	February 3 rd , 2020
 Invited Seminar Talk – Bucknell University "Toward Practical Automation for Software Engineering" 	January 29 th , 2020
 Invited Seminar Talk – Virginia Commonwealth University "Toward Practical Automation for Software Engineering" 	January 27 th , 2020
 Invited Seminar Talk – University of Memphis "Toward Practical Automation for Software Engineering" 	January 24 th , 2020
 Invited Seminar Talk – Temple University "Toward Practical Automation for Software Engineering" 	January 21st, 2020
 Invited Seminar Talk – Marquette University "Toward Practical Automation for Software Engineering" 	January 17 th , 2020
 Invited Seminar Talk – Villanova University "Toward Practical Automation for Software Engineering" 	January 14 th , 2020
 Emerging Scholar Series - Stryker Center, Williamsburg, VA "Software Engineering in the Age of Artificial Intelligence" 	September 18 th , 2019
Research Paper Presentation - ESEC/FSE'19, Tallinn, Estonia • "Assessing the Quality of the Steps to Reproduce in Bug Reports"	August 28 th , 2019
 Artificial Intelligence Speaker Series - NIST, Gaithersburg, MD "Software Engineering in the Age of Artificial Intelligence" 	September 18 th , 2019

 Invited Colloquium Talk – William & Mary, Williamsburg, VA "Toward Practical Automation for Software Engineering" 	October 26 th , 2018
 Journal First Paper Presentation - FSE'18, Orlando, FL "Machine Learning-Based Prototyping of Graphical User Interfaces for Mobile Ap 	September 27 th , 2018 ps"
Research Paper Presentation - ICSME'18, Madrid, Spain • "Assessing Test Case Prioritization on Real Faults and Mutants"	September 27 th , 2018
 Doctoral Symposium Presentation - ICSME'18, Madrid, Spain "Automating Software Development for Mobile Computing Platforms" 	September 25 th , 2018
 Research Paper Presentation - ASE'18, Montpellier, France "Detecting and Summarizing GUI changes in Evolving Mobile Apps" 	September 6 th , 2018
 Research Paper Presentation - ICSE'18, Gothenburg, Sweden "Automated Reporting of GUI Design Violations for Mobile Apps" 	May 30 th , 2018
 Tool Demo Paper Presentation - ICSE'18, Gothenburg, Sweden "MDroid+: A Mutation Testing Framework for Android Apps" 	May 30 th , 2018
Cisco Advanced Security Research Advisory Board Meeting (with Denys Poshyvanyk) • "Enabling Integrity and Security Assurance via Software Traceability"	May 8 th , 2018
Cisco Research Center Presentation (with Denys Poshyvanyk) • "Enabling Integrity and Security Assurance via Information Retrieval and Software)	<i>March 6th, 2018</i> re Traceability"
Research Paper Presentation - ICSME'17, Shanghai, China "Continuous, Evolutionary, and Large Scale: A New Perspective for Automated Months."	September 20 th , 2017 Iobile App Testing"
 Research Paper Presentation - ICSME'17, Shanghai, China "How do Developers Test Android Applications?" 	September 20 th , 2017
 Tool Demo Paper Presentation - at ICSE'17, Buenos Aires, Argentina "CrashScope: A Practical Tool for Automated Testing of Android Applications" 	May 24 th , 2017
 Technical Briefing - ICSE'17, Buenos Aires, Argentina "Automated GUI Testing of Android Apps: From Research to Practice" 	May 23 rd , 2017
 Tool Demo Paper Presentation - MOBILESoft'17, Buenos Aires, Argentina "On-Device Bug Reporting for Android Applications" 	May 22 nd , 2017
Research Paper Presentation - FSE'16, Seattle, WA • "A Large-Scale Empirical Comparison of Static and Dynamic Test Case Prioritizat:	November 16 th , 2016 ion Techniques"
 Technical Briefing Presentation - ICSME'16, Raleigh, NC "Automated GUI Testing of Android Apps: From Research to Practice" 	<i>October</i> 5 th , 2016
 Tool Demo Paper Presentation - ICSE'16, Austin, TX "FUSION: A Tool for Facilitating and Augmenting Android Bug Reporting" 	May 18 th , 2016
 Doctoral Symposium Presentation - ICSE'16, Austin, TX "Fixing Bug Reporting for Mobile and GUI-Based Applications" 	May 18 th , 2016
Research Paper Presentation - at ICST'16, Chicago, IL "Automatically Discovering, Reporting, and Reproducing Android Application Company of the Company of	<i>April</i> 12 th , 2016 rashes"

Research Paper Presentation - ESEC/FSE'15, Bergamo, Italy

• "Auto-Completing Bug Reports for Android Applications"

ACM Student Research Competition Presentation - ESEC/FSE'15, Bergamo, Italy

"Enhancing Android Application Bug Reporting"

September 4th, 2015

September 4th, 2015

AWARDED PATENTS

[P1] **Moran, K.**, Bernal-Cárdenas, C., Linares-Vásquez, M., and Poshyvanyk, D., "Computer Aided Bug Reporting System for GUI Applications," United States Utility Patent 10,083,106

PROFESSIONAL SERVICE

Organizing Committee

- ICPC 2022 ERA Track Chair
- A-Test/LANGETI 2020 Co-Organizer
- ASE 2020 Review Process Chair
- ICMSE 2019 Late Breaking Ideas Track PC Chair

Program Committee Member

- ICPC 2021 Research Track
- MSR 2021 Research Track, Data Showcase Track
- Deeptest 2021 Research Track
- ASE 2020 Research Track
- ICSME 2020 Research Track
- INTUITESTBEDS'21 Research Track
- ICSME 2019 Research Track

- ASE 2019 Student Research Competition
- MOBILESoft 2019 Research Track
- MOBILESoft 2019 Tool Demos & Mobile Apps Track
- INTUITTESTBEDS 2019 Research Track
- LANGETI 2019 Research Track
- INTUITTESTBEDS 2018 Research Track
- CHI 2019 Research Track

Editorial Board

• Journal of Systems and Software

Journal Reviewer

- IEEE Transactions on Software Engineering
- Empirical Software Engineering
- IEEE Transactions on the Internet of Things
- ACM Transactions on Software Engineering and Methodology
- Journal of Systems and Software
- Journal of Software: Evolution and Process

External Conference Reviewer

- ICSE 2018
- MSR 2018
- ICPC 2018
- SANER 2018
- ICSE 2017
- FSE 2017
- ICPE 2017
- ICSME 2017

- MSR 2017
- SANER 2017
- ICSE 2016
- FSE 2016
- ICPC 2016
- SANER 2016
- SCAM 2016
- ICSE 2015

- MSR 2015
- ICPC 2015
- ICSME 2015
- SCAM 2015
- ICSME 2014
- SCAM 2014
- APSEC 2014

PROFESSIONAL AFFILIATIONS

 Association for Computing Machinery (ACM) Special Interest Group on Software Engineering (ACM SIGSOFT) 	2013-present
• Institute of Electrical and Electronics Engineers (<i>IEEE</i>)	2013-present
• Sigma Pi Sigma American Physics Honor Society (SPS) INTERCOLLEGIATE ATHLETICS	2013-present

Holy Cross Men's Varsity Heavyweight Rowing Team (Division I-EARC)

2009-2013

• Competed in the 2013 IRA National Collegiate Rowing Championship Regatta

REFERENCES

Associate Professor Denys Poshyvanyk (Advisor)

 Class of 1953 Term Distinguished Associate Professor

• William & Mary

Email: denys@cs.wm.eduPhone: (757)-221-3476

Professor Andrian Marcus

Professor of Computer Science

• University of Texas at Dallas

Email: amarcus@utdallas.edu

• Phone: (972)-883-4246

Professor Massimiliano Di Penta

• Professor of Computer Science

• University of Sannio

• Email: dipenta@unisannio.it

• Phone: +39 0824 305536

Assistant Professor Adwait Nadkarni

Assistant Professor of Computer Science

William & Mary

Email: apnadkarni@wm.edu

• Phone: (919)-455-3955