Camilo ESCOBAR-VELÁSQUEZ

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Systems and Computing Engineering Department
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Education

Ph.D. (Student), Engineering, 2019-Now.
Universidad de los Andes
Field: Automation of Software Engineering Tasks
Advisor: Mario Linares-Vásquez

M.Sc., Software Engineering, 2017-2018.
Universidad de los Andes
Advisor: Mario Linares-Vásquez
Thesis Title: Automatic Analysis of Android Closed-Source apps to Support Software Engineering Tasks: The Mutation Testing Case

B.S., Systems and Computing Engineering, 2012-2016.
Universidad de los Andes
Minor: Mathematics
Advisor: Jose Tiberio Hernández

Research Experience

◎ **Graduate Teaching Doctoral Assistant**

The Software Design Lab - Universidad de los Andes

Jan. 2019 - Present

◎ **Graduate Research Assistant**

The Software Design Lab - Universidad de los Andes

Jan. 2017 - Dec. 2018

Teaching Experience

◎ **Teacher Assistant**

Automated Testing - MISO4208

Masters in Software Engineering - Universidad de los Andes

Jan. 2018 - Present

⊜ **Lab Instructor**

Design and Analysis of Algorithms

Systems and Computing Engineering Undergraduate Program - Universidad de los Andes

Jan. 2017 - Jun. 2017

Professional Service

Student Volunteer

⊜ The 34th IEEE/ACM International Conference on Automated Software Engineering - ASE'19 - November 2019 - San Diego, CA, USA

⊜ The 41st ACM/IEEE International Conference on Software Engineering - ICSE'19 - May 2019 - Montreal, Canada

⊜ The 34th IEEE International Conference on Software Maintenance and Evolution - ICSME'18 - October 2018 - Madrid, Spain

Talks

⊜ **Enabling Automated Software Engineering Tasks for Closed-Source Android Apps**

70th Anniversary of Research and Creation at Universidad de los Andes - November 2018 - Bogotá, Colombia

Honors and Awards

⊜ **ACM SIGAI travel scholarship**

Travel support to assist to The 34th International Conference on Automated Software Engineering

2019 - San Diego, CA, USA

⊜ **Google Latin American Research Award**

Awarded Project: *Enabling Automated Software Engineering Tasks for Closed-Source Mobile Apps*

2019-2020 - Bello Horizonte, Brasil

⊜ **PhD Studies Scholarship**

Universidad de los Andes

2019 - Bogotá, Colombia

⊜ **Google Latin American Research Award**

Awarded Project: *Enabling Automated Software Engineering Tasks for Closed-Source Mobile Apps*

2018-2019 - Bello Horizonte, Brasil

⊜ **1st Place Team Competition**

Testathon - Chapter 30

April 2019 - Bogotá, Colombia

⊘ **1st Place Hackaton Against Human Trafficking**

FIND: A Technological Environment to fight Human Trafficking

November 2018 - Bogotá, Colombia

⊘ **Master Studies Scholarship**

Universidad de los Andes

2017-2018 - Bogotá, Colombia

Refereed Journal Publications

[j1] **Escobar-Velásquez, C.**, Linares-Vásquez, M., Bavota, G., Tufano, M., Moran, K., Di penta, M., Vendome, C., Bernal-Cardenas, C., Poshyvanyk, D., *"Enabling Mutant Generation for Open- and Closed-Source Android Apps"*, in IEEE Transactions on Software Engineering 2020 (TSE'20) - Early Access

Refereed Conference Publications

[c6] Bello-Jiménez, L., **Escobar-Velásquez, C.**, Mojica-Hanke, A., Linares-Vásquez, M., *"Hall-of-Apps: The Top Android Apps Metadata Archive"*, in Proceedings of the 17th International Conference on Mining Software Repositories 2020 (MSR'20) - Data Showcase Track, Seoul, South Korea, October 5-11, 2020.

[c5] Trujillo, M., Linares-Vásquez, M., **Escobar-Velásquez, C.**, Dusparic, I., Cardozo, N., *"Does Neuron Coverage Matter for Deep Reinforcement Learning? A Preliminary Study"*, in Proceedings of the 2nd Workshop on Testing for Deep Learning and Deep Learning for Testing 2020 (DeepTest'20) - Research Track, Seoul, South Korea, October 5-11, 2020.

[c4] **Escobar-Velásquez, C.**, *"Source-Codeless Testing for Android Apps"*, in Proceedings of the 13th IEEE International Conference on Software Testing, Validation and Verification 2020 (ICST'20), Doctoral Symposyum, Porto, Portugal, October 24-28, 2020.

[c3] **Escobar-Velásquez, C.**, Osorio-Riaño, M., Linares-Vásquez, M., *"MutAPK: Source-Codeless Mutant Generation for Android Apps"*, in Proceedings of the 34th International Conference on Automated Software Engineering 2019 (ASE'19), Tool Demo, San Diego, CA, United States, November 11-15, 2019.

[c2] Ravelo-Méndez, W., **Escobar-Velásquez, C.**, Linares-Vásquez, M., *"Kraken-Mobile: Cross-Device Interaction-based Testing of Android Apps"*, in Proceedings of the 35th International Conference on Software Maintenance and Evolution 2019 (ICMSE'19), Tool Demo, Cleveland, OH, United States, October 2-4, 2019.

[c1] Linares-Vásquez, M., Bavota, G., **Escobar-Velásquez, C.**, *"An Empirical Study on Android-Related Vulnerabilities"*, in Proceedings of the 14th International Conference on Mining Software Repositories 2017 (MSR '17), Research Paper, Buenos Aires, Argentina, May 20-21, 2017.

Presentations

[p3] **Escobar-Velásquez, C.**, Osorio-Riaño, M., Linares-Vásquez, M., *"MutAPK: Source-Codeless Mutant Generation for Android Apps"*, in Proceedings of the 34th International Conference on Automated Software Engineering 2019 (ASE'19), Tool Demo, San Diego, CA, United States, November 11-15, 2019.

[p2] Ravelo-Méndez, W., **Escobar-Velásquez, C.**, Linares-Vásquez, M., *"Kraken-Mobile: Cross-Device Interaction-based Testing of Android Apps"*, in Proceedings of the 35th International Conference on Software Maintenance and Evolution 2019 (ICMSE'19), Tool Demo, Cleveland, OH, United States, October 2-4, 2019.

[p1] **Escobar-Velásquez, C.**, Linares-Vásquez, M., *"Enabling Automated Software Engineering Tasks for Closed-Source Android Apps"*, 70th Anniversary of Research and Creation at Universidad de los Andes, Bogotá, Colombia, November 21, 2018.