

# Camilo ESCOBAR-VELÁSQUEZ

---

Universidad de los Andes  
Systems and Computing Engineering Department  
Carrera 1 N° 18A - 12 – Office: ML-753  
Bogota, Colombia 111711

ca.escobar2434@uniandes.edu.co  
caev03.github.io  
Skype: caev03  
Phone: +571 3394999 - Ext. 3375

## 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 - Nov 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

## **Honors and Awards**

---

### ⊗ **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*

2019 - Bello Horizonte, Brasil

### ⊗ **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 Conference Publications**

---

[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.

## Publications under Review and Submission

---

**Escobar-Velásquez, C.**, Linares-Vásquez, M., Bavota, G., Tufano, M., Moran, K., Di Penta, M., Vendome, C., Bernal-Cárdenas, C., Poshyvanyk, D., "*Enabling Mutation Testing for Open- and Closed-Source Android Apps*", Under review for IEEE Transactions on Software Engineering.