# David Kavaler

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## Overview

I am experienced in data analysis, including data mining, data gathering, statistical modeling (including predictive and explanatory models), metric design, natural language processing, and machine learning. I have extensive experience in gathering data and using R and Python to build both predictive and explanatory statistical models, and I am an adept programmer in multiple languages. My primary interests are in the fields of data analysis, data mining, empirical software engineering, and security.

## Education

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| 09/2013 to Present | UC Davis, Ph.D. in Computer Science |
| 09/2009 to 06/2013 | UC Davis, B.S. in Computer Science and Engineering |

## Publications

**Stochastic Actor-Oriented Modeling for Studying Homophily and Social Influence in OSS Projects. ★**
David Kavaler, Vladimir Filkov. *Empirical Software Engineering* (2016): 1-29. dx.doi.org/10.1007/s10664-016-9431-y.
★ *Invited to present at SIGSOFT International Symposium on the Foundations of Software Engineering (FSE) 2016.*

**Using and Asking: APIs Used in the Android Market and Asked About in Stack Overflow. ☆**
David Kavaler, Daryl Posnett, Clint Gibler, Hao Chen, Prem Devanbu, and Vladimir Filkov. Presented at 5th International Conference on Social Informatics (SocInfo). *Social Informatics.* Springer International Publishing, 2013. 405418.
☆ *Best Paper Nominee.*

## Pending Publications

**When Stack Overflow Slows Down: Latency of Answers to Questions About New Android APIs. (Working Title)**
David Kavaler, Vladimir Filkov

**Exploiting Time and Subject Locality for Fast, Efficient, and Understandable Alert Triage.**
David Kavaler, Michael Bierma, Corey Hudson

## Awards and Recognitions

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| Dean's List | Letters and Science and Engineering: Fall 2009, Spring 2011, Fall 2011, Winter 2012, Spring 2012, Fall 2012 |
| A+ Grade Received | Introduction to Software Engineering, Embedded Systems, Modern Physics, General Chemistry, Elementary Accounting |
| Graduate Level GPA | 4.0 |
| Fellowships Awarded | UC Davis Graduate Group in Computer Science Fellowship: Fall 2013, Spring 2015, Fall 2015 |
| Best Paper Nominations | International Conference on Social Informatics (SocInfo) 2013 |
| Invited Presentations | SIGSOFT International Symposium on the Foundations of Software Engineering (FSE) 2016 |

## Employment and Research Experience

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| Fall 2013 - Present | Computer Science Department - Teaching Assistant and Research Assistant in DECAL lab with Premkumar Devanbu and Vladimir Filkov |
| June 2016 – September 2016 | Cybersecurity Research Intern (Summer) at Sandia National Labs |
| Summer 2010 | Engineering Intern at Sensys Networks |

## Programming Languages, Software Tools and Operating Systems

R, Java, C, C++, Python, SQL, JavaScript, bash, x86 Assembly, LaTeX, ActionScript / Flash

PostgreSQL, Node.js, Angular.js, Eclipse IDE, Git, Android SDK, Unity, Adobe Photoshop, Adobe Illustrator
Packages and functions: scikit-learn, base R, data.table, (g)lm, (g)lmer, ggplot, pscl, MASS, car, dplyr
Ubuntu, Fedora, Android, Windows

## References

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|---|---|
| Vladimir Filkov | Professor. Computer Science Department, UC Davis. filkov@cs.ucdavis.edu |
| Premkumar Devanbu | Professor. Computer Science Department, UC Davis. devanbu@cs.ucdavis.edu |