# David **Kavaler**

SOFTWARE ENGINEER · DATA ANALYST

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## Overview

I am experienced in data analysis, data mining, data gathering, statistical modeling, machine learning, metric design, and natural language processing. I have extensive experience in gathering data 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 language processing.

## Education

**University of California, Davis** *Davis, California*
PH.D. COMPUTER SCIENCE, 4.0 GPA *2013 - Present (Expected 2018)*

**University of California, Davis** *Davis, California*
B.S. COMPUTER SCIENCE AND ENGINEERING *2009 - 2013*

## Publications

**Elements of Socio-Technical Trust in GitHub: The Effects of Visibility, Expertise, Productivity, and Responsiveness.** *Submitted ICSE 2018*
DAVID KAVALER, PREM DEVANBU, VLADIMIR FILKOV

**Exploiting Time and Subject Locality for Fast, Efficient, and Understandable Alert Triage** *Accepted ICNC 2018*
DAVID KAVALER, COREY HUDSON, MICHAEL BIERMA

**Perceived Language Complexity in GitHub Issue Discussions and Their Effect on Issue Resolution** *Accepted ASE 2017*
DAVID KAVALER, SASHA SIROVICA, VINCENT HELLENDOORN, RAUL ARANOVICH, VLADIMIR FILKOV

**Quality, Latency, and Amount of Stack Overflow Answers to Questions About Recent Android APIs** *Submitted PLOS One*
DAVID KAVALER, VLADIMIR FILKOV *Pending revisions*

**Stochastic Actor-Oriented Modeling for Studying Homophily and Social Influence in OSS Projects** *Accepted to journal EMSE*
DAVID KAVALER, VLADIMIR FILKOV
• Invited to present at the International Symposium on the Foundations of Software Engineering (FSE) 2016.

**Using and Asking: APIs Used in the Android Market and Asked About in StackOverflow** *Accepted SocInfo 2013*
DAVID KAVALER, DARYL POSNETT, CLINT GIBLER, HAO CHEN, PREM DEVANBU, VLADIMIR FILKOV
• Best paper nominee.

## Awards & Honors

2015 **Fellowship**, UC Davis Graduate Group in Computer Science
2013 **Fellowship**, UC Davis Graduate Group in Computer Science
2013 **Best Paper Nomination**, International Conference on Social Informatics

## Work Experience

**University of California, Davis** *Davis, California*
RESEARCH AND TEACHING ASSISTANT *Sep. 2013 - Present*
• Research assistant in the DECAL lab at UC Davis.
• Teaching assistant for multiple courses, including software engineering and introduction to object-oriented programming (C++).

**Sandia National Laboratories** *Livermore, California*
CYBERSECURITY SUMMER RESEARCH INTERN *Jun. 2016 - Sep. 2016*
• Worked towards various solutions for cybersecurity related problems. Pending publication.

**Sensys Networks** *Berkeley, California*
SOFTWARE ENGINEERING SUMMER INTERN *Jun. 2010 - Sep. 2010*
• Wrote code for a front-end in Actionscript to interface with wireless devices using a proprietary packet structure.

## Skills

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| **Programming Languages** | R, Python, C/C++, C#, Java, LaTeX, Javascript |
| **Tools & Frameworks** | PostgreSQL, Node.js, Android, Unity, scikit-learn |

## References

**Vladimir Filkov**                                                    *filkov@cs.ucdavis.edu*

PROFESSOR. COMPUTER SCIENCE DEPARTMENT, UC DAVIS

**Prem Devanbu**                                                    *devanbu@cs.ucdavis.edu*

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