

David Kavalier

SOFTWARE ENGINEER · DATA ANALYST

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Overview

I am experienced in deep learning, 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.

Education

University of California, Davis

PH.D. COMPUTER SCIENCE, 4.0 GPA

Davis, California

2013 - Present (Expected 2018)

University of California, Davis

B.S. COMPUTER SCIENCE AND ENGINEERING

Davis, California

2009 - 2013

Publications

Elements of Socio-Technical Trust in GitHub: The Effects of Visibility, Expertise, Productivity, and Responsiveness

DAVID KAVALIER, PREM DEVANBU, VLADIMIR FILKOV

Submitted MSR 2018

A Study of Android App Success by Cross-Linking GitHub and Google Play Store

JOHN BUSINGE, DAVID KAVALIER, ENGINEER BAINOMUGISHA, VLADIMIR FILKOV, MOSES OPENJA

Submitted MSR 2018

Exploiting Time and Subject Locality for Fast, Efficient, and Understandable Alert Triage

DAVID KAVALIER, COREY HUDSON, MICHAEL BIERMA

Accepted ICNC 2018

Perceived Language Complexity in GitHub Issue Discussions and Their Effect on Issue Resolution

DAVID KAVALIER, SASHA SIROVICA, VINCENT HELLENDORN, RAUL ARANOVICH, VLADIMIR FILKOV

Accepted ASE 2017

Quality, Latency, and Amount of Stack Overflow Answers to Questions About Recent Android APIs

DAVID KAVALIER, VLADIMIR FILKOV

Submitted PLOS ONE

Under minor revisions

Stochastic Actor-Oriented Modeling for Studying Homophily and Social Influence in OSS Projects

DAVID KAVALIER, VLADIMIR FILKOV

Accepted to journal EMSE 2016

- 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

DAVID KAVALIER, DARYL POSNETT, CLINT GIBLER, HAO CHEN, PREM DEVANBU, VLADIMIR FILKOV

Accepted SocInfo 2013

- Best paper nominee.

Awards & Honors

- 2018 **Invited Reviewer**, PLOS ONE
- 2016 **Invited Presentation**, International Symposium on the Foundations of Software Engineering (FSE)
- 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

GRADUATE STUDENT RESEARCHER AND TEACHING ASSISTANT

Davis, California

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

CYBERSECURITY SUMMER RESEARCH INTERN

Livermore, California

Jun. 2016 - Sep. 2016

- Worked towards various solutions for cybersecurity related problems. Resulting paper accepted to ICNC 2018.

Skills

Programming Languages R, Python, C/C++, C#, Java, LaTeX, Javascript

Tools & Frameworks TensorFlow, keras, scikit-learn, PostgreSQL, Node.js, Android, Unity