

# ZIFENG HUANG (FORREST)

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## ACADEMICS

2017-Present

**University of California, Berkeley**  
Ph.D. Electrical Engineering and Computer Sciences  
GPA: 4.00/4.00, Advisor: Prof. John F. Canny

2013-2017

**University of Illinois at Urbana-Champaign (UIUC)**  
B.S. Computer Science with Highest Honors, Top 3% of Graduating Class  
GPA: 3.98/4.00, Bronze Tablet Scholar, Thesis Advisor: Prof. Ranjitha Kumar

## SELECTED PUBLICATIONS

2017

**ZIPT: Zero-Integration Performance Testing of Mobile App Design**  
*Biplab Deka, Zifeng Huang, Chad Franzen, Jeffrey Nichols, Yang Li and Ranjitha Kumar*  
*Proceedings of the 30th Annual Symposium on User Interface Software and Technology (UIST '17)*

2017

**RICO: A Mobile App Dataset for Building Data-Driven Design Applications**  
*Biplab Deka, Zifeng Huang, Chad Franzen, Joshua Hibsichman, Daniel Afergan, Yang Li, Jeffrey Nichols and Ranjitha Kumar*  
*Proceedings of the 30th Annual Symposium on User Interface Software and Technology (UIST '17)*

2016

**ERICA: Interaction Mining Mobile Apps**  
*Biplab Deka, Zifeng Huang and Ranjitha Kumar*  
*Proceedings of the 29th Annual Symposium on User Interface Software and Technology (UIST '16)*

## WORK EXPERIENCES

2018-  
Present

**Google LLC**  
Software Engineering Intern  

- Worked on a research project to enable **sketch-based querying and generation of user interfaces** using **deep neural networks**.

2017-  
Present

**University of California, Berkeley**  
Graduate Student Researcher of Professor John F. Canny's Research Group  

- Current research work on developing **interactive ML systems for sketching and animation**.
- Developed **sketch generation AI capable of generating scenes based on language**. The system is based on the **Magenta Sketch-RNN Project** and the **Quick, Draw! Dataset** released by Google.

2014-2017

**University of Illinois at Urbana-Champaign**  
Research Assistant of Professor Ranjitha Kumar's Data-driven Design Group  

- Developed the **ERICA** system that mines **interaction design data** of **Android applications**
- Modified the **Android SDK** and **system source code** and built a **custom version of Android** for retrieving **UI data** instantaneously. Released as a part of the **Google Vanadium open-source framework**.

**Grader for CS446 Machine Learning**  
**Course Assistant for CS125 Introduction to Computer Science**

2015

**The Climate Corporation**  
Software Engineering Intern(Android)  

- Developed a **weather data visualization library** for farmers.

## LEADERSHIP / PROFESSIONAL ACTIVITIES

2018

**Reviewer, CHI 2018**

2015

**President, UIUC Promoting Undergraduate Research in Engineering Committee**  

- Managed and promoted a research program that facilitates over 25 graduate student mentors and 60 undergraduate students every semester to **complete a research project and to present at the symposium**.

## AWARDS

2017

**UIUC C. W. Gear Outstanding Undergraduate Researcher Award**

2016

**UIUC Maxine and Yunni Pao Memorial Scholarship**

## SKILLS

Programming Experience: Python (Tensorflow), Java (Android), Javascript