

# Rolando S. Garcia

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## EDUCATION

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### University of California, Berkeley

Ph.D. in Computer Science

Berkeley, CA

Fall 2017 – Present

### Arizona State University

B.S. in Computer Science, *Summa Cum Laude*

Tempe, AZ

Spring 2014 – Spring 2017

## AWARDS AND FELLOWSHIPS

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NSF Graduate Research Fellowship	2017
UC Berkeley's Chancellor Fellowship	2017
UC Berkeley's EECS Excellence Award	2017
CRA Outstanding Undergraduate Researcher Award, honorable mention	2017
Fulton Undergraduate Research Initiative, research award	2016
IEEE VAST Grand Challenge Award, outstanding comprehensive submission	2015

## RESEARCH

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### RISE Lab [rise.cs.berkeley.edu](http://rise.cs.berkeley.edu)

June 2017 – Present

Graduate Researcher, advised by [Joe Hellerstein](#)

*University of California, Berkeley*

- [FLOR](#), Fast Low-Overhead Recovery: Record-Replay of Model Training for Hindsight Logging.
- Context capture, inference, and management in the Machine Learning Lifecycle.

### Amazon Search

May 2018 – January 2019

Research Internship supervised by Chris Severs

*Palo Alto, CA*

- Context capture and management of enterprise-scale model training pipelines.
- Distributed scheduling of enterprise-scale model training pipelines.

### VADER Lab [vader.lab.asu.edu](http://vader.lab.asu.edu)

January 2015 – May 2017

Undergraduate Researcher, advised by [Ross Maciejewski](#)

*Arizona State University, Tempe*

- NSF REU: Visual Analytics Algorithms for Spatiotemporal Analysis.
- Visual Analytics of Crowd Spatiotemporal Data (VAST Grand Challenge Award).
- Visual Analytics of Scientometrics.

### Computational Genetics Lab [epistasis.org](http://epistasis.org)

June 2016 – August 2016

Undergraduate Researcher, advised by [Randy Olson](#) and [Jason Moore](#)

*University of Pennsylvania, Philadelphia*

- DELFT: Deep Learning Feature of TPOT.
- Leadership Alliance participant.

## PUBLICATIONS

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### Operationalizing Machine Learning: An Interview Study

*ArXiv* 2023

Shreya Shankar\*, Rolando Garcia\*, Joseph M. Hellerstein, Aditya G. Parameswaran.

ACM *CHI Conf' on Human Factors in Computing Systems*, (undergoing review) 2023.

\*Co-first authors. **Honorable Mention:** MLOps Community Best Paper Award

## PUBLICATIONS (CONT'D)

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- Hindsight Logging for Model Training** *PVLDB* 2021  
*Rolando Garcia*, Eric Liu, Vikram Sreekanti, Bobby Yan,  
Anusha Dandamudi, Joseph E. Gonzalez, Joseph M. Hellerstein, Koushik Sen.  
*Proceedings of the VLDB Endowment*, 14(4): 682-693, 2021.
- Context: The Missing Piece in the Machine Learning Lifecycle** *KDD CMI* 2018  
*Rolando Garcia*, Vikram Sreekanti, Neeraja Yadwadkar, Daniel Crankshaw,  
Joseph E. Gonzalez, Joseph M. Hellerstein.  
*Workshop on Common Model Infrastructure* at KDD, 2018.
- A Visual Analytics Framework for Exploring Theme Park Dynamics** *ACM TIIS* 2018  
Michael Steptoe, Robert Krüger, *Rolando Garcia*, Xing Liang, Ross Maciejewski.  
*ACM Transactions on Interactive Intelligent Systems*, 2018.
- The State-of-the-Art in Predictive Visual Analytics** *CGF* 2017  
Yafeng Lu, *Rolando Garcia*, Brett Hansen, Michael Gleicher, Ross Maciejewski.  
*Computer Graphics Forum*, 2017.
- VADER/VIS Grand Challenge Entry** *IEEE VAST* 2015  
Michael Steptoe, Robert Krüger, Yifan Zhang, Xing Liang, *Rolando Garcia*,  
Sagarika Kadambi, Wei Luo, Thomas Ertl, Ross Maciejewski.  
*Proceedings of the IEEE VAST Challenge Workshop*, 2015.

## TALKS

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- Operationalizing Machine Learning: An Interview Study** *Flyte*, 2022  
*Rolando Garcia*, Shreya Shankar. December 2022.
- Operationalizing Machine Learning: An Interview Study** *Feedzai*, 2022  
Shreya Shankar, *Rolando Garcia*. November 2022.
- Operationalizing Machine Learning: An Interview Study** *Viaduct*, 2022  
Shreya Shankar, *Rolando Garcia*. November 2022.
- Operationalizing Machine Learning: An Interview Study** *Salesforce*, 2022  
*Rolando Garcia*, Shreya Shankar. San Francisco Bay Area, November 2022.  
San Francisco
- Operationalizing Machine Learning: An Interview Study** *Cookpad*, 2022  
Shreya Shankar, *Rolando Garcia*. November 2022.
- Operationalizing Machine Learning: An Interview Study** *Weights & Biases*, 2022  
Shreya Shankar, *Rolando Garcia*. San Francisco Bay Area, October 2022.
- Operationalizing Machine Learning: An Interview Study** *Inaugural Address*, 2022  
Shreya Shankar, *Rolando Garcia*. Berkeley, CA, October 2022.  
EPIC, UC Berkeley
- Operationalizing Machine Learning: An Interview Study** *Canva*, 2022  
*Rolando Garcia*, Shreya Shankar. October 2022.

## TALKS (CONT'D)

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- Operationalizing Machine Learning: An Interview Study** *Doordash, 2022*  
Shreya Shankar, *Rolando Garcia*. San Francisco, CA, October 2022. San Francisco
- Operationalizing Machine Learning: An Interview Study** *MLOps World, 2022*  
*Rolando Garcia*, Shreya Shankar. San Francisco Bay Area, October 2022. San Francisco
- Accelerate Your ML Experiments with Flor** *Podcast...init..., 2022*  
*Rolando Garcia*. Hosted by Tobias Macey, April 2022. [pythonpodcast.com](https://pythonpodcast.com)
- FLOR: Managing the Infinite Virtual Metadata of Model Training** *Cornell Seminar, 2022*  
*Rolando Garcia*. Cornell University, February 2022.
- Hindsight Logging for Model Training** *VLDB 2021*  
*Rolando Garcia*, Eric Liu, Vikram Sreekanti, Anusha Dandamudi, Bobby Yan, Joseph Gonzalez, Koushik Sen, Joseph Hellerstein. August 2021. Copenhagen
- Choose What to Log, After you Execute** *RISE Retreat 2019*  
*Rolando Garcia*, Eric Liu, Vikram Sreekanti, Anusha Dandamudi, Bobby Yan, Joseph Gonzalez, Koushik Sen, Joseph Hellerstein. Retreat talk to lab sponsors. Monterey, CA. January 2019.
- ML in Context: Preserve, Share, and Analyze Experiments with Flor** *RISE Camp 2018*  
*Rolando Garcia*, Vikram Sreekanti, Neeraja Yadwadkar, Daniel Crankshaw, Sona Jeswani, Eric Liu, Malhar Patel, Joseph Gonzalez, Joseph Hellerstein. Talk and Tutorial for lab sponsors. Berkeley, CA. October 2018.
- Context: The Missing Piece in the Machine Learning Lifecycle** *KDD 2018*  
*Rolando Garcia*, Vikram Sreekanti, Neeraja Yadwadkar, Daniel Crankshaw, Joseph Gonzalez, Joseph Hellerstein. *The 24<sup>th</sup> ACM SIGKDD Intl' Conf.* August 2018. London
- Data Management Challenges in the Machine Learning Lifecycle** *Amazon 2018*  
*Rolando Garcia*, Vikram Sreekanti, Daniel Crankshaw, Neeraja Yadwadkar, Sona Jeswani, Eric Liu, Malhar Patel, Joseph Gonzalez, Joseph Hellerstein. Invited talk at Amazon Search. Palo Alto, CA. April 2018. Palo Alto
- Design, Run, and Reproduce Experiments with Jarvis** *RISE Retreat 2018*  
*Rolando Garcia*, Vikram Sreekanti, Daniel Crankshaw, Neeraja Yadwadkar, Alexey Tumanov, Joseph Gonzalez, Joseph Hellerstein. Retreat talk to lab sponsors. Monterey, CA. January 2018.
- Jarvis: Managing the Machine Learning Lifecycle** *Google 2017*  
*Rolando Garcia*, Vikram Sreekanti, Daniel Crankshaw, Neeraja Yadwadkar, Alexey Tumanov, Joseph Gonzalez, Joseph Hellerstein. Invited talk at Google. Mountain View, CA. September 2017. Mountain View

## TALKS (CONT'D)

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### **The State-of-the-Art in Predictive Visual Analytics**

*Euro Vis* 2017

Yafeng Lu, *Rolando Garcia*, Brett Hansen, Michael Gleicher, Ross Maciejewski.  
19<sup>th</sup> *EG/VGTC Conference on Visualization*, Barcelona, Spain. June 2017.

Barcelona

### **Automatic Design and Optimization of Deep Learning Models**

*LANS* 2016

*Rolando Garcia*, Randal Olson, Jason Moore.  
*The Leadership Alliance National Symposium*, Stamford, CT. July 2016.

### **VAST 2015 Grand Challenge – Team VADER/VIS**

*VAST* 2015

Michael Steptoe, Robert Krüger, Yifan Zhang, Xing Liang, *Rolando Garcia*,  
Sagarika Kadambi, Wei Luo, Thomas Ertl, Ross Maciejewski.

Chicago

*IEEE Visual Analytics Science and Technology Conference*, Chicago, IL. October 2015.

## TEACHING

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### **Introduction to Database Systems (COMPSCI 186/286)**

Spring 2018

Graduate Student Instructor, 450 students

*University of California, Berkeley*

### **Introduction to Programming Languages (CSE 240)**

Fall 2015

Undergraduate Student Instructor, 267 students

*Arizona State University, Tempe*

### **Introduction to Ethics (PHI 105)**

Fall 2013

Undergraduate Student Instructor, 50 students

*Northern Arizona University, Flagstaff*

## SERVICE

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### **Diversifying Access to Research in Engineering (DARE)**

June 2020 – Present

Organizer | [dare.berkeley.edu](http://dare.berkeley.edu)

*University of California, Berkeley*

DARE is a recruitment program and hiring infrastructure that seeks to increase diversity and equitable opportunity in undergraduate computer science research. DARE was founded by the RISE lab, and now enlists more than 30 faculty members and their labs from across the EECS department.

- Promoted outreach to students with financial needs, transfer students, and students with demonstrated service toward increasing diversity and inclusion.
- I noticed that some undergraduate researchers struggled with inadequate and unreliable computers, and this interfered with their ability to do research. I sought and received university funding for DARE to acquire laptops it can furnish to undergraduate researchers with financial need. We can now give laptops to students who need them for undergraduate research.

### **EECS Graduate Admissions**

Fall 2021

Graduate Student Representative | [dsf.berkeley.edu](http://dsf.berkeley.edu)

*University of California, Berkeley*

### **Data Systems and Foundations Seminar**

Fall 2020

Coordinator | [dsf.berkeley.edu](http://dsf.berkeley.edu)

*University of California, Berkeley*

### **Graduate Pathways to STEM**

June 2017 – December 2019

Peer Advising Co-Chair and Peer Advisor | [GPS Hyperlink](#)

*UC Berkeley & Stanford*