

Rolando S. Garcia

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EDUCATION

University of California, Berkeley

Ph.D. in Computer Science, advised by Dr. Joseph M. Hellerstein

Berkeley, CA

Fall 2017 - Spring 2024

Arizona State University

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

Tempe, AZ

Spring 2014 - Spring 2017

Northern Arizona University

91 credits (3.97 GPA) toward B.A. in Philosophy

Flagstaff, AZ

Fall 2010 - Fall 2013

AWARDS AND FELLOWSHIPS

Dell Technologies Inc. Research Award, one year of funding	2023
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

EPIC Data Lab epic.berkeley.edu

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

June 2021 – Present

University of California, Berkeley

- [FlorDB](#): Multiversion Hindsight Logging for Continuous Training
- Operationalizing ML: An interview study, w Shreya Shankar et al.
- NSF Future of Work: Upskilling lawyers and journalists to process court cases at scale.

RISE Lab rise.cs.berkeley.edu

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

June 2017 – 2021

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

Research Internship supervised by Chris Severs

May 2018 – January 2019

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

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

January 2015 – May 2017

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

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

June 2016 – August 2016

University of Pennsylvania, Philadelphia

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

PUBLICATIONS

- Operationalizing Machine Learning: An Interview Study** *ArXiv* 2023
Shreya Shankar*, *Rolando Garcia**, Joseph M. Hellerstein, Aditya G. Parameswaran.
ACM CSCW Conf' on Computer Supported Cooperative Work and Social Computing
(under revision) 2024.
*Co-first authors. **Honorable Mention:** MLOps Community Best Paper Award
- 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

- 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.

TALKS (CONT'D)

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

TALKS (CONT'D)

Jarvis: Managing the Machine Learning Lifecycle

Rolando Garcia, Vikram Sreekanti, Daniel Crankshaw, Neeraja Yadwadkar, Alexey Tumanov, Joseph Gonzalez, Joseph Hellerstein.
Invited talk at Google. Mountain View, CA. September 2017.

Google 2017
Mountain View

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

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

EuroVis 2017
Barcelona

Automatic Design and Optimization of Deep Learning Models

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

LANS 2016

VAST 2015 Grand Challenge – Team VADER/VIS

Michael Steptoe, Robert Krüger, Yifan Zhang, Xing Liang, *Rolando Garcia*, Sagarika Kadambi, Wei Luo, Thomas Ertl, Ross Maciejewski.
IEEE Visual Analytics Science and Technology Conference, Chicago, IL. October 2015.

VAST 2015
Chicago

TEACHING

Introduction to Database Systems (COMPSCI 186/286)

Graduate Student Instructor, 450 students

Spring 2018
University of California, Berkeley

Introduction to Programming Languages (CSE 240)

Undergraduate Student Instructor, 267 students

Fall 2015
Arizona State University, Tempe

Introduction to Ethics (PHI 105)

Undergraduate Student Instructor, 50 students

Fall 2013
Northern Arizona University, Flagstaff

SERVICE

Diversifying Access to Research in Engineering (DARE)

Organizer | dare.berkeley.edu

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.

June 2020 – December 2022
University of California, Berkeley

EECS Graduate Admissions

Graduate Student Representative | dsf.berkeley.edu

Fall 2021
University of California, Berkeley

Data Systems and Foundations Seminar

Coordinator | dsf.berkeley.edu

Fall 2020
University of California, Berkeley

Graduate Pathways to STEM

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

June 2017 – December 2019
UC Berkeley & Stanford