

Address: [Viterbi School of Engineering](#)  
[University of Southern California](#)

Mobile: +1 (424) 230-4499  
Email: [mkhezri@usc.edu](mailto:mkhezri@usc.edu)  
Website: [www.mostafakhezri.com](http://www.mostafakhezri.com)

**EDUCATION**      Ph.D. in Physics (2018) — [University of California, Riverside](#)  
M.S. in Physics (2014) — [University of California, Riverside](#)  
B.S. in Physics (2012) — [Sharif University Of Technology](#)  
Diploma in Mathematics and Physics (2008) — [Allameh Helli High School](#)

**RESEARCH EXPERIENCE**      Postdoctoral Scholar (2018–Present)  
                                 [Quantum Computation and Open Quantum Systems Group](#)  
                                 Supervisor: Professor [Daniel Lidar](#)

                                 Visiting Researcher (Summer 2016)  
                                 [Google Quantum AI lab](#)  
                                 Supervisor: Dr. [Alireza Shabani](#)

                                 Graduate Research Assistant (2013–2018)  
                                 [Quantum Computing and Measurement Physics \(QCAMP\) Group](#)  
                                 Supervisor: Professor [Alexander N. Korotkov](#)

                                 Undergraduate Researcher (2010–2012)  
                                 [Quantum Information Science Group](#)  
                                 Supervisor: Professor [Vahid Karimipour](#) and Professor [Ali Rezakhani](#)

**HONORS & AWARDS**

- Robert Poe Memorial Scholarship Award for Outstanding Ph.D. Graduate (2018)  
  [University of California, Riverside](#)
- Graduate Division Dissertation Year Fellowship (2017)  
  [University of California, Riverside](#)
- Robert Wild Award for Outstanding Graduate Student (2016)  
  [University of California, Riverside](#)
- Anne Kernan Award for Outstanding Graduate Student (2013)  
  [University of California, Riverside](#)
- Award for Outstanding Teaching Assistant (2013)  
  [University of California, Riverside](#)
- Dean’s Distinguished Fellowship (2012)  
  [University of California, Riverside](#)
- 9th Rank, National Undergraduate Physics Competitions, Olympiad (2011)  
  [Sharif University Of Technology](#)
- National Elite Fellowship (2008–2012)  
  [Iranian National Elite Foundation](#)
- 2nd Rank, National Students Physics Competition, Olympiad (2007)  
  [Young Scholars Club](#)
- 3rd Rank, Junior Soccer Robot (2006)  
  [Iranian Open Robocup, IranOpen](#)

**PUBLICATIONS**      6. **Operation and intrinsic error budget of a two-qubit cross-resonance gate**  
                                 *Vinay Tripathi, Mostafa Khezri, and Alexander N. Korotkov*  
                                 *Phys. Rev. A* **100**, 012301 (2019)

5. **Two-time correlators for propagating squeezed microwave in transients**  
*Juan Atalaya, Mostafa Khezri, and Alexander N. Korotkov*  
[Phys. Rev. A \*\*99\*\*, 043810 \(2019\)](#)
4. **Hybrid phase-Fock-space approach to evolution of a driven nonlinear resonator**  
*Mostafa Khezri and Alexander N. Korotkov*  
[Phys. Rev. A \*\*96\*\*, 043839 \(2017\)](#)
3. **Measurement-Induced State Transitions in a Superconducting Qubit: Beyond the Rotating Wave Approximation**  
*Daniel Sank\*, Zijun Chen\*, Mostafa Khezri\*, Rami Barends, Yu Chen, Austin Fowler, Robert Graff, Evan Jeffrey, Julian Kelly, Erik Lucero, Anthony Megrant, Josh Mutus, Pedram Roushan, Ted White, Matthew Neeley, Brooks Campbell, Benjamin Chiaro, Andrew Dunsworth, Charles Neill, Peter O'Malley, Christopher Quintana, Amit Vainsencher, James Wenner, Alexander N. Korotkov, and John M. Martinis*  
 \*Equal contribution  
[Phys. Rev. Lett. \*\*117\*\*, 190503 \(2016\)](#)
2. **Measuring a transmon in circuit QED: dressed squeezed state**  
*Mostafa Khezri, Eric Mlinar, Justin Dressel, and Alexander N. Korotkov*  
[Phys. Rev. A \*\*94\*\*, 012347 \(2016\)](#)
1. **Qubit measurement error from coupling with a detuned neighbor in circuit QED**  
*Mostafa Khezri, Justin Dressel, and Alexander N. Korotkov*  
[Phys. Rev. A \*\*92\*\*, 052306 \(2015\)](#)

## **PRESENTATIONS**

14. **Coherent oscillations in the annealing of a flux qubit**  
 Conference Talk: American Physical Society (APS) March Meeting  
 Boston Convention Center, Boston MA, March 2019
13. **Squeezing in transients for a driven nonlinear resonator**  
 Conference Talk: American Physical Society (APS) March Meeting  
 Los Angeles Convention Center, Los Angeles CA, March 2018
12. **Measurement of superconducting qubits**  
 Invited Talk: Yale Quantum Institute  
 Yale Quantum Institute, New Haven CT, February 2018
11. **Measurement of superconducting qubits**  
 Invited Talk: Berkeley Quantum Information and Computation Center  
 UC Berkeley, Berkeley CA, January 2018
10. **Hybrid phase-Fock-space approach to evolution of a driven nonlinear resonator**  
 Conference Talk: American Physical Society (APS) March Meeting  
 New Orleans Convention Center, New Orleans LA, March 2017
9. **High-power measurement of superconducting qubits**  
 Invited Talk: Rigetti Computing  
 Rigetti Computing, Berkeley CA, February 2017
8. **Measurement of superconducting qubits**  
 Invited Talk: R. G. Herb Condensed Matter Seminar  
 University of Wisconsin-Madison, Madison WI, November 2016
7. **Non-QNDness of dispersive measurement in superconducting qubits**  
 Invited Talk: Berkeley Quantum Information and Computation Center  
 UC Berkeley, Berkeley CA, April 2016

6. **Non-QNDness of dispersive measurement in superconducting qubits**  
Conference Talk: American Physical Society (APS) March Meeting  
Baltimore Convention Center, Baltimore MD, March 2016
5. **cQED measurement of Transmon: Deviations from a coherent state in eigenbasis**  
Conference Talk: American Physical Society (APS) March Meeting  
Baltimore Convention Center, Baltimore MD, March 2016
4. **Circuit QED qubit readout error from leakage to a neighboring qubit**  
Conference Talk: American Physical Society (APS) March Meeting  
San Antonio Convention Center, San Antonio TX, March 2015
3. **Measurement of coupled qubits**  
Workshop Talk: Multi Qubit Coherent Operation Meeting  
University of California at Santa Barbara, Santa Barbara CA, September 2014
2. **Dispersive qubit readout error in the presence of another qubit**  
Poster: Multi Qubit Coherent Operation Meeting  
University of Maryland, College Park MD, May 2014
1. **Introduction to Quantum Biology**  
Seminar Talk: Condensed Matter Seminar  
Sharif University of Technology, Tehran, Iran, June 2011

## TEACHING EXPERIENCE

Graduate Teaching Assistant  
[University of California, Riverside](#)  

- Physics Lab, (2012–2013)
- General Physics (Winter 2014)

Undergraduate Teaching Assistant  
[Sharif University Of Technology](#)  

- Quantum Mechanics I (Fall 2011)
- General Physics II (Spring 2010)

Physics Olympiad Teacher\*  
Farzanegan 2 High School (2009–2012)  
Allameh Helli 3 High School (2008–2010)  
Rouzbeh High School (2009–2010)  
\* Teaching undergraduate level Physics to high school students as part of preparation for national Physics Olympiad.

## COMPUTER SKILLS

Advanced: Python, Mathematica,  $\text{\LaTeX}$   
Intermediate: GNU/Linux, git  
Working knowledge: HTML5/CSS, C++

## REFeree

Physical Review Letters, Physical Review A, Quantum Science and Technology, Scientific Reports

## VOLUNTEERING WORK

- Coordinating Committee
- Physics Society of Iran's 18th National Students Physics Conference (2010)
  - Physics Society of Iran's 19th National Students Physics Conference (2011)

## REFERENCES

[Dr. Alexander N. Korotkov](#)  
 – Professor, Department of Electrical and Computer Engineering  
[University of California, Riverside](#), Riverside, CA  
 – Research Scientist, [Google Quantum AI](#)  
 Google Inc., Venice, CA

Dr. Justin Dressel

Assistant Professor of Physics, Schmid College of Science and Technology  
Chapman University, Orange, CA