

# BRENDON G. ANDERSON

bganderson@berkeley.edu

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EDUCATION    **University of California, Berkeley**    Aug. 2018 – Present  
Ph.D. in Mechanical Engineering  
*Research Areas:* Optimization, Machine Learning, Control Theory  
*Advisors:* Somayeh Sojoudi and Francesco Borrelli

**University of California, Los Angeles**    Sep. 2015 – Mar. 2018  
B.S. in Mechanical Engineering  
*Technical Breadth Area:* Mathematics  
*GPA:* 4.0/4.0 (*summa cum laude*)

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EXPERIENCE    **Jr. Development Engineer — UCLA Engineering**    Jan. 2018 – Jun. 2018  
*Advisor:* Robert M’Closkey

- Designed, fabricated, and tested low-frequency folded pendulum accelerometer for use in UCLA’s dynamic systems and control laboratories

**CVT Analysis, Design, Control — Baja SAE**    Sept. 2015 – Jun. 2018

- Developed electronic continuously variable transmission (CVT) and executed system identification and control
- Modeled mechanical CVT and constructed flyweight optimization program

**Research Assistant — UCLA Mathematics**    Jun. 2017 – Aug. 2017  
*Advisors:* Matt Haberland, Olga Turanova, and Andrea L. Bertozzi

- Formulated performance quantification methods for swarm coverage control algorithms

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AWARDS    • Harry M. Showman Prize (schoolwide research award), UCLA    Jun. 2018  
• Jonathan David Wolfe Memorial Scholarship, UCLA    Apr. 2018

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PUBLICATIONS    [1] **B. G. Anderson**, E. Loeser, M. Gee, F. Ren, S. Biswas, O. Turanova, M. Haberland, and A. L. Bertozzi, “Quantitative assessment of robotic swarm coverage,” in *Proceedings of the 15th International Conference on Informatics in Control, Automation and Robotics (ICINCO)—Volume 2*, 2018, pp. 91–101.

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TEACHING    **Supplemental Instructor — Palomar College**    Aug. 2014 – May 2015

- Electromagnetism (PHYS 231)
- General Chemistry (CHEM 115)

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SKILLS    *Programming:* MATLAB, C++, Python  
*Tools and Applications:* L<sup>A</sup>T<sub>E</sub>X, TikZ, LabVIEW