

# DYLAN J. MOORE

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## EDUCATION

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- Ph.D. **Mechanical Engineering**, Stanford University, Expected '18
- M.S. **Mechanical Engineering**, University of Southern California '15  
*Major: Engineering Design      Minor: Fluid Dynamics*
- B.S. **Engineering Physics**, University of California, Berkeley '13
- B.A. **Music**, University of California, Berkeley '13
- + **Study Abroad**, University of Cambridge, England, Summer '12

## PUBLICATIONS

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- Moore, D., Sauder, J., & Jin, Y. (In Press). *Exploring Dual-Processes of Iteration in Conceptual Design*. International Journal of Engineering Education.
- Moore, D., Sauder, J., & Jin, Y. (2015, May). *Exploring Dual-Processes of Iteration in Conceptual Design*. Proceedings of Mudd Design Workshop IX, Claremont, CA.
- Moore, D., Sauder, J., & Jin, Y. (2014, August). *A Dual-Process Analysis of Design Idea Generation*. Proceedings of the ASME 26<sup>th</sup> International Conference on Design Theory and Methodology, Buffalo, NY.
- Moore, D., Ristock, G., & Jin, Y. (2014, June). *Enhancing Design Creativity with Intuitive Thinking*. Design Creativity Workshop - Design, Cognition, and Computing 2014, London, England.

### Working Paper

- A Dual-Process Analysis of Design Idea Generation

## PRESENTATIONS

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- 5/28/15 *Exploring Dual-Processes of Iteration in Conceptual Design*  
Mudd Design Workshop IX
- 9/19/14 *Enhancing Design Creativity With Intuitive Thinking: A Dual-Process Approach*  
USC Aerospace and Mechanical Engineering Department Poster Session
- 8/18/14 *A Dual-Process Analysis of Design Idea Generation*  
ASME IDETC – 26<sup>th</sup> International Conference on Design Theory and Methodology, Buffalo, NY
- 8/1/14 *Enhancing Design Creativity With Intuitive Thinking: A Dual-Process Approach*  
(Invited talk) Beijing Institute of Technology, Laboratory of Industrial Engineering
- 6/22/14 *Enhancing Design Creativity With Intuitive Thinking*  
Design Creativity Workshop – Design, Computing, and Cognition Conference, London, England
- 4/1/14 *Understanding the Role of Intuitive Thinking in the Engineering Design Process*  
USC 6th Annual Graduate Research Symposium (Finalist)

## RESEARCH

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- IRIS Design Lab, Stanford University – Stanford, CA**  
*Advisor: Assistant Professor Erin MacDonald*  
9/15 – Present Studying the impact of priming on group idea generation of sustainable design in product development and engineering. Using an interdisciplinary approach to blend findings from engineering design, psychology, cognitive science, and management science to enhance design processes.
- IMPACT Lab, University of Southern California – Los Angeles, CA**  
*Advisor: Professor Yan Jin*  
8/13 – 5/15 Studied the role of intuitive thinking in engineering design using a dual-process creative cognition approach to enhance designer creativity and design novelty. Goal of research was to improve engineering design methodology, education and improve fundamental understanding of design creativity.
- Gadgil Engineering Lab-Stoves Group, Lawrence Berkeley National Labs – Berkeley, CA**  
6/11 – 3/12 Haiti Cookstoves Project. Worked as a student laboratory assistant under Prof. Ashok Gadgil to perform hands-on Controlled Cooking Tests in lab conditions on a variety of traditional and improved cookstoves currently used in Haiti. Reported most efficient and clean burning stove producible at lost cost.

## TEACHING

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- UC Berkeley Department of Physics – Berkeley, CA**  
8/12 – 5/13 “Sense & Sensibility & Science” – Designed new interdisciplinary course on rationality, decision making, and policy alongside Professors Saul Perlmutter (2011 Physics Nobel Laureate), John Campbell (Philosophy), and Robert MacCoun (Public Policy, Law) with team of 15 academically diverse students. Undergraduate Assistant for course Spring 2013.

## INDUSTRY

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- Yorke Engineering, LLC – San Juan Capistrano, CA**  
5/12 – 6/12 Collaborated with coworkers in small teams to manage air quality emissions database and run queries to provide averages for emissions reporting. Assisted in creating final reports for air monitoring agencies.  
10/08 – 8/09 Worked with marketing department to construct and maintain company website and perform marketing research and advertising campaigns. Used search engine optimization tools to increase impact of website.  
6/07 – 7/07
- Controlled Dynamics, Inc. – Huntington Beach, CA**  
6/10 – 8/10 Tested and debugged prototype GeoVision navigation system, a low cost, high accuracy inertial navigation system targeted for unmanned aerial vehicle use during denied GPS. Self-taught basic C programming and programmed (TERN C) a printed circuit board to log real-time GPS test data. Field surveyed optical targets to establish high-accuracy test positions. Analyzed GPS receiver data to produce test truth scenarios. Worked independently under guidance of chief engineers.

## VOLUNTEERING AND LEADERSHIP

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- Gay Men’s Chorus of Los Angeles**  
9/14 – 3/15 Performed in Alive Music Project outreach program to support LGBTQ youth in high schools around greater Los Angeles and assisted with administrative duties.
- Queers in Engineering, Science, and Technology**  
8/14 – 5/15 Graduate mentor for LGBT students and allies from technical majors. Organized workshops such as “Applying to Grad School” for undergraduates and networking events for graduates.

### **The Music Connection**

8/09 – 5/13

As President and Vice President oversaw 100 tutors offering free lessons to hundreds of students in 15 Berkeley public schools. Organization received 2012 UC Berkeley Chancellor's Award for Public Service. Assistant Conductor of Berkeley High School Chorus.

### **Delta Sigma Phi Fraternity, Hilgard Chapter**

4/11 – 5/13

As Treasurer and House Manager oversaw \$180k annual budget (dues, taxes, rent collection, and living expenses). Enforced house regulations, workshift system and maintained relationships with landlords and community. Organized service and philanthropy events.

## **AWARDS AND AFFILIATIONS**

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- USC Rose Hills PhD Fellow, 2013-2015
- Academy Member, USC Sidney Harman Academy for Polymathic Study, 2013-2015
- Student Member ASME, 2014-Present
- USC Thornton Chamber Singers Ensemble Award, 2014
- UC Berkeley Music Department Choral Scholarship Recipient, 2011-2013
- Order of Omega Honor Society, 2011

Last updated October 11, 2015