

## **EDUCATION**

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| <b>2016</b> | Ph.D. | College of Education, University of South Alabama<br>Instructional Design and Development (emphasis in evaluation) |
| <b>2007</b> | M.A.  | College of Science, California State University, Stanislaus<br>Psychology (emphasis in program evaluation)         |
| <b>2005</b> | B.A.  | College of Science, California State University, Stanislaus<br>Psychology  |

## **RELATED EXPERIENCE**

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- 2015 - **Senior Program Evaluation Specialist**  
present      *Johns Hopkins University School of Medicine, Baltimore, MD*  
Along with the Director of the School of Medicine's Office of Assessment and Evaluation, provide a vision for and implementation of program evaluation for JHUSOM medical and biomedical education. This includes developing and implementing systems and processes to support the evaluation of undergraduate medical education, graduate medical education, graduate biomedical education, and postdoctoral training. Provide evidence-based evaluation recommendations to aid in course revisions and curriculum planning. Provide support to faculty for education research involving program evaluation.
- 2005 – **Owner, Principal Consultant**  
present      *Jessica Harlan Consulting, Baltimore, MD*  
Instructional design, program evaluation, and program development services. Work with subject-matter experts and stakeholders to identify and address learning and development needs. Utilize qualitative and quantitative data to assess intervention effectiveness and employee and client satisfaction. Develop strategic plans, logic models, evaluation plans, and action plans. Ensure client compliance with federal, state, grantor, and organizational regulations.  
*Key Clients:* University of California, Irvine; University of California, San Diego; University of California, Office of the President; University of California, Agriculture and Natural Resources; Thic Design; Smithsonian Institution; Mobile Baykeeper; College Brain Trust

**Jessica M. Harlan**

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2013 – **Graduate Research Assistant**

2015 *University of South Alabama, Mobile, AL*

Provide program evaluation services related to National Science Foundation-funded and other STEM programs. Responsible for all phases of planning, implementation, analysis, and reporting. Develop and validate assessments; quantitative, qualitative, and mixed methods data collection and analysis; grant writing; supervision of other graduate research assistants. Prepare journal articles, conference presentations, and other papers.

2015 **Graduate Intern**

*Smithsonian Institution, Office of Policy and Analysis, Washington, DC*

Develop tools, resources, and guidance related to program evaluation for grantees receiving funding through the Institute for Museum and Library Services. This includes guidance about evaluation methodologies based on the type of program or project, sample materials, best practices, required resources, and guidance regarding contracting with external evaluators. Assist with development of measurement tools and quantitative and qualitative data collection in support of other internal evaluation activities at the Smithsonian Institution. Provide coaching and training for undergraduate interns.

2010 - **Research Administration Training Officer**

2012 *University of California, Davis*

Developed a training program in the Office of Research, Sponsored Programs for staff in research administration positions. Identified training needs and subject-matter experts. Developed curriculum and course materials for instructor-led and online training courses. Facilitated instructor-led trainings. Developed tools and resources (e.g., checklists, flow-charts, user guides, and handbooks) for internal and campus research administration staff. Developed and maintained Sponsored Programs content and tools on the Office of Research website. Coordinated with the University of California, Office of the President to provide training materials and other resources to other University of California campuses.

2004 - **Senior Research Coordinator**

2007 *Stanislaus County School Readiness Program Evaluation*

Trained elementary school staff and college students in accurate data collection methods. Coordinated data collection at over 17 local elementary schools. Responsible for ensuring data quality and accuracy. Responsible for building and maintaining relationships between the Evaluation Team and district/school staff.

## **RESEARCH EXPERIENCE**

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- 2015      **Reading Maturity and Reading Experiences in Pre-Service Teachers**  
Investigated the relationship between current reading experiences, sustained silent reading, and reading maturity. Primary role on the project is data analysis and examination of the psychometric properties of the measurement tool, including reliability, content validity, and construct validity. Dr. Karen Tunks, University of South Alabama.
- 2013-2015      **Engaging Youth through Engineering (EYE)**  
NSF Award DRL- 0918769. Responsible for day-to-day management of the program evaluation portion of the EYE curriculum-integrated engineering design modules for middle grades. Developed, tested, and scored quantitative and qualitative evaluation tools to assess attitudes, knowledge, and skills. Conducted quantitative and qualitative data analysis. Developed reports and communicated findings to school administrators, teachers, program managers, and curriculum developers. Supervised other graduate assistants working on the evaluation team. Prepared findings for professional and academic presentation. Dr. James P. Van Haneghan, University of South Alabama.
- 2013-2015      **Alabama Math Science and Technology Initiative (AMSTI)**  
Assisted in the evaluation of AMSTI Summer Institutes. The vision of AMSTI is “that all students will develop a knowledge base for science, mathematics, and technology literacy for successful participation in society, continuing education, and expansion of the STEM workforce.” At the Summer Institutes, teachers receive grade and subject specific professional development delivered by master teachers who have been certified as AMSTI trainers. Drs. Andre Green and James P. Van Haneghan, University of South Alabama.
- 2004-2007      **Stanislaus County School Readiness**  
Assisted in research and evaluation of the Stanislaus County School Readiness (SR) program. The SR program was funded through First 5 California and aimed to provide services to families with children from birth to 5 years of age in seven unique school districts in Stanislaus County. The aim of the program was to help increase the school readiness of children in high poverty, high minority school districts. This included academic, social, and emotional readiness. The study involved a longitudinal investigation of program impact, as well as a comparison of best practices across school districts. Drs. Jamie McCreary, Harold Stanislaw, and Jennifer Esterly, California State University, Stanislaus.

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2006- **Master's Thesis**

2007 *Title: A Knowledge Based Intervention to Improve Attitudes about Lesbians and Gay Men Among College Students*

Designed an affordable intervention to improve attitudes about lesbians and gay men by refuting commonly held misconceptions about lesbians and gay men. The intervention effectively improved males' attitudes. Dr. Lisa Carlstrom, California State University, Stanislaus.

2005- **Obesity Prevention in Pre-teens**

2006 Conducted literature review to examine previously used interventions. Conducted focus groups with 4<sup>th</sup> and 6<sup>th</sup> grade students to determine health behaviors and activity interests of youth. Trained research assistants in proper data collection techniques. Coordinated pilot data collection. Assisted in final program development. Drs. Harold Stanislaw and Jamie McCreary, California State University, Stanislaus.

2005- **Binge Drinking Prevention in Youth**

2006 Conducted focus groups with Stanislaus County high school and college students to assess youth drinking behavior and reasons for alcohol use and abuse. Assisted in final program and evaluation survey development. Drs. Harold Stanislaw and Jamie McCreary, California State University, Stanislaus.

2004- **Emotion Contagion**

2005 Assisted in the development of a questionnaire designed to measure the relationship between emotion contagion, mood, and supportive interactions with dating partners. Conducted two-part data collection, including follow up with participants to obtain the full questionnaire. Assisted in preparation of findings for professional presentation. Dr. Jamie McCreary, California State University, Stanislaus.

**PUBLICATIONS**

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Van Haneghan, J. P., Pruet, S., **Harlan, J. M.**, & Neal-Waltman, R. (2015). Teacher beliefs about motivating and teaching students to carry out engineering design challenges: Some initial data. *Journal of Pre-College Engineering Education Research*, 5(2). doi: 10.7771/2157-9288.1097

**PRESENTATIONS**

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**Harlan J. M.**, & Barlow P. B. (2016, October). *Evaluators of health professions education: A networking opportunity*. Discussion group facilitated at the 30th annual conference of the American Evaluation Association, Atlanta, GA

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- Barlow, P.B., & **Harlan J. M.** (2016, October). *Uniting evaluators in health professions education: Creating a new Topical Interest Group*. Think tank session facilitated at the 30th annual conference of the American Evaluation Association, Atlanta, GA.
- Van Haneghan, J. P., & **Harlan, J. M.** (2015, November). *Contextual factors in elementary and middle grades STEM interventions*. Presented at the annual conference of the American Evaluation Association, Chicago, IL.
- Van Haneghan, J. P., **Harlan, J. M.**, & Dean, M. D. (2015, November). *Developing integrated STEM programs for middle school classrooms*. Presented at the annual conference of the Association for Educational Communications and Technology, Indianapolis, IN.
- Tunks, K., & **Harlan, J. M.** (2015, October). *The Reading Maturity Scale: Initial examination of content and construct validity*. Presented at the annual conference of the Consortium for Research on Educational Assessment and Teaching Effectiveness, Charleston, SC.
- Van Haneghan, J. P., & **Harlan, J. M.** (2015, October). *Impacts of an engineering design curriculum on middle school student STEM interest*. Presented at the annual conference of the Consortium for Research on Educational Assessment and Teaching Effectiveness, Charleston, SC.
- Vaux, N., & **Harlan, J. M.** (2015, October). *Construct validity of the School Optimism Scale among elementary school teachers*. Presented at the annual conference of the Consortium for Research on Educational Assessment and Teaching Effectiveness, Charleston, SC.
- Harlan, J. M.**, Van Haneghan, J. P., Dean, M. D., & Pruet, S. A. (2015, June). *Evaluating the impact of curriculum-integrated engineering design modules in middle grades classrooms*. Presented at the annual conference of the American Society for Engineering Education, Seattle, WA.
- Green, A. M., Kent, A., **Harlan, J. M.**, & Feldman, P. (2015, April). *Preparing science teachers to be effective educators: The Noyce Pathway to Science Program*. Presented at the annual conference of the American Educational Research Association, Chicago, IL.
- Van Haneghan, J. P., **Harlan, J. M.**, & Dean, M. D. (2015, April). *The impact of engineering focused modules on the engineering design knowledge of 8th graders*. Presented at the annual conference of the American Educational Research Association, Chicago, IL.
- Green, A. M., & **Harlan, J. M.** (2015, April). *Developing highly skilled science teachers using graduate education and mentorship: The Noyce Pathway to Science Program*. Presented at the annual conference of the National Association for Research in Science Teaching, Chicago, IL.
- Harlan, J. M.**, & Van Haneghan, J. P. (2015, February). *Measuring the fidelity of implementation of student-centered education programs*. Presented at the annual conference of the Southeast Evaluation Association, Tallahassee, FL.

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- Van Haneghan, J. P., **Harlan, J. M.**, & Dean, M. D. (2014, October). *A mixed-methods approach to capturing common problem solving threads in a middle school engineering design curriculum*. Presented at the annual conference of the American Evaluation Association, Denver, CO.
- Van Haneghan, J. P., & **Harlan, J. M.** (2014, October). *The impact of cumulative fidelity of implementation on the effects of a multi-grade middle school engineering curriculum*. Presented at the annual conference of the American Evaluation Association, Denver, CO.
- Van Haneghan, J. P., & **Harlan, J. M.** (2014, October). *Evaluating long term problems in a short term world: Strategies from the study of an engineering design curriculum*. Presented at the annual conference of the Consortium for Research on Educational Assessment and Teaching Effectiveness, Williamsburg, VA.
- Harlan, J. M.** (2014, October). *How does implementation of middle school engineering-design modules impact student STEM self-efficacy and attitudes?* Presented at the annual conference of the Consortium for Research on Educational Assessment and Teaching Effectiveness, Williamsburg, VA.
- Harlan, J. M.**, Pruet, S., Van Haneghan, J. P., & Dean, M. D. (2014, June). *Using curriculum-integrated modules to improve understanding of math and science content and STEM attitudes in middle grades students*. Presented at the annual conference of the American Society for Engineering Education, Indianapolis, IN.
- Harlan, J. M.**, Dean, M., & Van Haneghan, J. P. (2014, April). *Development of a rubric for use in assessing transfer of learning in middle grades engineering program participants*. Presented at the annual conference of the American Society for Engineering Education – Gulf-Southwest division, New Orleans, LA.
- Harlan, J. M.**, & Hill, T. (2011, November). *Developing effective training programs on a shoestring budget*. Discussion group at the annual meeting for the National Council of University Research Administrators, Washington, DC. Invited Speaker.
- Harlan, J. M.**, & Carlstrom, L. (2007, May). *Improving attitudes about lesbians and gay men*. Presented at the annual conference of the Western Psychological Association, Vancouver, B.C.
- McCreary, J., Jarrett, M., Johnston, J., **Harlan, J. M.**, Lanik, M., Kinnear, K. (2006, January). *Emotion contagion during support interactions in dating relationships*. Presented at the annual conference of the Society for Personality and Social Psychology, Palm Springs, CA.

**SOFTWARE PROFICIENCIES**

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SPSS

SPSS-AMOS

IRTPro

Qualtrics

QDA Miner

HLM7

Adobe Captivate

Remark (optical scanning software)

Microsoft Office Suite

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**OTHER RELEVANT EDUCATION**

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|---------------|--|
| March 2017    | Intermediate Cost-Benefit & Cost-Effectiveness Analysis; The Evaluators Institute; Joseph Cordes   |
| March 2017    | Introduction to Cost-Benefit & Cost-Effectiveness Analysis; The Evaluators Institute; Clive Belfield   |
| November 2016 | Strategic Team Leadership; Carey Business School, Johns Hopkins University; Brian Gunia  |
| April 2015    | An Introduction to Hierarchical Linear Modeling for Education Researchers; American Educational Research Association; Ann A. O'Connell and D. Betsy McCoach                            |
| October 2014  | Developmental Evaluation: Applying Complexity Concepts to Enhance Innovation and Use; American Evaluation Association; Michael Quinn Patton  |
| Fall 2011     | Developing as a Supervisor Certificate Series; Staff Development and Professional Services; University of California, Davis; Davis, CA   |
| Spring 2011   | Train the Trainer; Staff Development and Professional Services; University of California, Davis; Davis, CA   |
| Spring 2011   | Making Effective eLearning Modules Using Adobe Captivate: Cognitive Theory of Multimedia Design; Adobe Rapid eLearning   |
| Spring 2009   | Multilingual Student Writers: Language and Cultural Diversity in the Classroom training; Writing Across the Curriculum Center; California State University, Sacramento; Sacramento, CA |

## **TEACHING EXPERIENCE**

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- January 2009 - **Adjunct Assistant Professor, Psychology Department**  
December 2013  
*Cosumnes River College, Sacramento, CA*  
Courses: General Principles of Psychology (classroom-based, online, and televised), Statistics for the Behavioral Sciences, and Research Methods.
- January 2008 - **Assistant Psychology Professor - Long-term Temporary Position**  
December 2008  
*Cosumnes River College, Sacramento, CA*  
Full-time long-term temporary faculty member.  
Courses: General Principles of Psychology (classroom-based and televised), Statistics for the Behavioral Sciences, and Research Methods.
- August 2007 - **Associate Psychology Professor**  
December 2007  
*Modesto Junior College, Modesto, CA*  
Adjunct faculty member.  
Courses: Introduction to Psychology, Human Sexuality
- February 2007 - **Teaching Associate**  
May 2007  
*California State University, Stanislaus, Turlock, CA*  
Adjunct faculty member.  
Course: Experimental Psychology Research Seminar
- August 2006 - **Graduate Teaching Intern**  
December 2006  
*Modesto Junior College, Modesto, CA*  
Courses: Introduction to Psychology, Research Methods  
Supervising Faculty: Lee Merchant-Kooler, M.A., M.F.T.
- August 2006 - **Teaching Assistant**  
December 2006  
*California State University, Stanislaus, Turlock, CA*  
Course: Sexual Behavior  
Assisted in course development, including choosing textbook, lecture topics, and course assignments. Graded exams and papers.  
Supervising Faculty: Dr. Lisa Carlstrom
- January 2006 - **Teaching Assistant**  
May 2006  
*California State University, Stanislaus, Turlock, CA*  
Courses: Research Seminar in Social Psychology, Intimate Relationships  
Graded research papers for APA style and content. Led weekly study sessions and provided lecture support for students.  
Supervising Faculty: Dr. Jamie McCreary



**ACADEMIC AND OTHER SERVICE**

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|------------------------------|---|
| Summer 2015 –<br>present     | Peer Reviewer, Journal of Pre-College Engineering Education Research  |
| Summer 2015 –<br>present     | Member of the Expert Review Panel for the evaluation of the National Aeronautics and Space Administration/US Department of Education Collaboration STEM Design Challenges for 21st Century Community Learning Centers |
| Fall 2014 –<br>Fall 2016     | Board Member at Large, Board of Directors, Consortium for Research on Educational Assessment and Teaching Effectiveness   |
| Summer 2011 –<br>Summer 2012 | Sponsored Programs Representative, Office of Research Web Content Workgroup, University of California, Davis  |
| Fall 2008 –<br>Spring 2009   | Primary Assessor, Psychology Department Student Learning Outcomes Assessment, Cosumnes River College  |
| Spring 2008 –<br>Spring 2009 | Faculty Coordinator, Psychology Department Research Poster Session, Cosumnes River College  |
| Spring 2009                  | Gay, Lesbian, Straight Education Network (GLSEN) faculty participant, Cosumnes River College  |
| Spring 2009                  | Women’s History Month Planning Committee participant, Cosumnes River College  |
| Spring 2009                  | Scholarship Review Committee member, Cosumnes River College   |