

## **Mark Hansen**

UCLA CRESST

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### **Education**

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- 2013 **Doctor of Philosophy, UCLA Graduate School of Education & Information Studies.** Advanced Quantitative Methods in Education, Division of Social Research Methodology.
- 2005 **Master of Public Health, Boston University School of Public Health.** Concentration in Social and Behavior Sciences.
- 1999 **Bachelor of Arts, Boston University College of Arts and Sciences.** Concentration in Biology. Minor concentrations in Mathematics and Visual Arts.

### **Work Experience**

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- 2014-present **Assistant Professor in Residence, UCLA Graduate School of Education & Information Studies.** Division of Social Research Methodology.
- 2013 **Visiting Assistant Professor, UCLA Graduate School of Education & Information Studies.** Division of Social Research Methodology.
- 2013-present **Senior Researcher, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).**
- 2007-2013 **Graduate Student Researcher, UCLA Graduate School of Education & Information Studies.**
- 2004-2007 **Director of Evaluation and Research, National Center for Medical-Legal Partnership, Boston Medical Center.**
- 2004-2006 **Research Coordinator, Tieng Xánh-Voice, Inc.**
- 1999-2004 **Research Technician, Molecular Diagnostics Laboratory, Dana-Farber Cancer Institute.**

### **Teaching Experience**

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- Advanced Item Response Theory.* UCLA Graduate School of Education & Information Studies. (Spring 2016).
- Educational and Psychological Measurement: Underlying Theory and Practice.* UCLA Graduate School of Education & Information Studies. (Spring 2014, Fall 2015).
- Advanced Topics in Research Methodology.* UCLA Graduate School of Education & Information Studies. (Spring 2015).

## Teaching Experience (continued)

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*Introduction to the Design and Conduct of Social Science Research.* UCLA Graduate School of Education & Information Studies. (Winter 2015).

*Reflection on Methods in Social Sciences.* UCLA Graduate School of Education & Information Studies. (Fall 2013).

*Introduction to Survey Research Methods.* UCLA Graduate School of Education & Information Studies. Special Reader (Spring 2009).

*Introduction to Research Design and Statistics.* UCLA Graduate School of Education & Information Studies. Special Reader (Fall 2008).

*Quantitative Research Methods for Program Evaluation.* Boston University School of Public Health. (Summer 2007, Spring 2007, Summer 2007)

## Fellowships & Awards

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2013 **National Science Foundation (NSF) Dissertation Improvement Grant.** Methodology, Measurement, and Statistics program.

2008-2012 **Institute of Education Sciences (IES) Pre-doctoral Fellowship.** Training Program in Advanced Quantitative Methods in Educational Research. Departments of Education and Psychology, UCLA.

## Articles

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Huang, W., Stucky, B. D., Edelen, M. O., Tucker, J. S., Shadel, W. G., **Hansen, M.**, & Cai, L. (2016). Calibration of the Spanish PROMIS smoking item banks. *Nicotine and Tobacco Research*. Advance online publication. doi:10.1093/ntr/ntw005

Edelen, M. O., Stucky, B. D., **Hansen, M.**, Tucker, J. S., Shadel, W. G., & Cai, L. (2014). The PROMIS Smoking Initiative: Initial validity evidence for six new smoking item banks. *Nicotine and Tobacco Research*, 16, Supplement 3, S250-S260.

Edelen, M. O., Tucker, J. S., Shadel, W. G., Stucky, B. D., Cerully, J., Li, Z., **Hansen, M.**, & Cai, L. (2014). Development of the PROMIS Health Expectancies of Smoking item banks. *Nicotine and Tobacco Research*, 16, Supplement 3, S223-S231.

Edelen, M. O., Tucker, J. S., Shadel, W. G., Stucky, B. D., **Hansen, M.**, Cai, L., & Li, Z. (2014). Development of the PROMIS Positive Emotional and Sensory Expectancies of Smoking item banks. *Nicotine and Tobacco Research*, 16, Supplement 3, S212-S222.

**Hansen, M.**, Cai, L., Stucky, B. D., Tucker, J. S., Shadel, W. S., & Edelen, M. O. (2014). Methodology for developing and evaluating the PROMIS smoking item banks. *Nicotine and Tobacco Research*, 16, Supplement 3, S175-S189.

Sandel, M., Suther, E., Brown, C., Wise, M., & **Hansen, M.** (2014). The MLP vital sign: assessing and managing legal needs in the healthcare setting. *Journal of Legal Medicine*, 35, 41-56.

## Articles (continued)

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- Shadel, W. G., Edelen, M. O., Tucker, J. S., Stucky, B. D., **Hansen, M.**, & Cai, L. (2014). Development of the PROMIS Coping Expectancies of Smoking item banks. *Nicotine and Tobacco Research, 16, Supplement 3*, S202-S211.
- Shadel, W. G., Edelen, M. O., Tucker, J. S., Stucky, B. D., **Hansen, M.**, & Cai, L. (2014). Development of the PROMIS Nicotine Dependence item banks. *Nicotine and Tobacco Research, 16, Supplement 3*, S190-S201.
- Tucker, J. S., Shadel, W. G., Edelen, M. O., Stucky, B. D., Kuhfeld, M., **Hansen, M.**, & Cai, L. (2014). Development of the PROMIS Social Motivations for Smoking item banks. *Nicotine and Tobacco Research, 16, Supplement 3*, S241-S249.
- Cai, L., & **Hansen, M.** (2013). Limited-information goodness-of-fit testing of hierarchical item factor models. *British Journal of Mathematical and Statistical Psychology, 66*, 245-276.
- Hansen, M.**, Alkin, M. C., & Wallace, T. L. (2013). Depicting the logic of three evaluation theories. *Evaluation and Program Planning, 38*, 34-43.
- Hansen, M.**, & Cai, L. (2013). A hierarchical item response model for cognitive diagnosis. *Multivariate Behavioral Research, 48*, 158 (Abstract).
- Yang, J., **Hansen, M.**, & Cai, L. (2012). Characterizing sources of uncertainty in IRT scale scores. *Educational and Psychological Measurement, 72*, 264-290.
- Ryan, A., Kutob, R. M., Suther, E., **Hansen, M.**, & Sandel, M. (2012). Pilot study of impact of medical-legal partnership services on patients' perceived stress and wellbeing. *Journal of Health Care for the Poor and Underserved, 23*, 1536-1546.
- Cai, L., Yang, J., & **Hansen, M.** (2011). Generalized full information bifactor analysis. *Psychological Methods, 16*, 221-248.
- Sandel, M., **Hansen, M.**, Kahn, R., Lawton, E., Paul, Parker, V., Morton, S., & Zuckerman, B. (2010). Medical-Legal partnerships: Transforming primary care by addressing the legal needs of vulnerable populations. *Health Affairs, 29*, 1697-1705.
- Ma, P.C., Jagadeeswaran, R., Jagadeesh, S., Tretiakova, M.S., Nallasura, V., Fox, E.A., **Hansen, M.**, Schaefer, E., Naoki, K., Lader, A., Richards, W., Sugarbaker, D., Husain, A.N., Christensen, J.G., & Salgia, R. (2005). Functional expression and mutations of c-Met and its therapeutic inhibition with SU11274 and small interfering RNA in non-small cell lung cancer. *Cancer Research, 65*, 1479-88.
- Treon, S.P., Hansen, M., Branagan, A.R., Verselis, S., Emmanouilides, C., Kimby, E., Frankel, S.R., Touroutoglou, N., Turnbull, B., Anderson, K.C., Moloney, D.G., & Fox, E.A. (2005). Polymorphisms in FcγRIIIA (CD16) receptor expression are associated with clinical response to rituximab in Waldenström's Macroglobulinemia. *Journal of Clinical Oncology, 23*, 474-481.
- Tracy, S., Mukohara, T., Hansen, M., Meyerson, M., Johnson, B.E., & Janne, P.A. (2004). Gefitinib induces apoptosis in EGFR L858R non-small cell lung cancer cell line H3255. *Cancer Research, 64*, 7241-7244.
- Ferrando, A.A., Herblot, S., Palomero, T., Hansen, M., Hoang, T., Fox, E.A., and Look, A.T. (2004). Biallelic transcriptional activation of oncogenic transcription factors in T-cell acute lymphoblastic leukemia. *Blood, 103*, 1909-1911.

## Other Reports

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**Hansen, M.,** Cai, L., Monroe, S., & Li, Z. (2014). *Limited-information goodness-of-fit testing of diagnostic classification item response theory models* (CRESST Report 840). Los Angeles, CA: University of California, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).

Rickles, J. H., **Hansen, M.,** & Wang, J. (2013). *Treatment confounded missingness: A comparison of methods for addressing censored or truncated data in school reform evaluations* (CRESST Report 832). Los Angeles, CA: University of California, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).

Herman, J. L., Rickles, J., **Hansen, M.,** Thomas, L., Gualpa, A., & Wang, J. (2011). *Evaluation of Green Dot's Locke transformation project: Findings from the 2007-08, 2008-09, and 2009-10 school years.* (CRESST Report 799). Los Angeles, CA: University of California, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).

Silver, D., **Hansen, M.,** Herman, J. Silk, Y., & Greenleaf, C.L. (December 2010) *IES Integrated Learning Assessment Final Report.* (CRESST Report 788). Los Angeles: University of California, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).

Lee, J., Avila, M., Gerardi, N., **Hansen, M.,** & Vo, A. (December 2009) *LBUSD Small Learning Communities Evaluation Report (2008-2009).* Los Angeles: SRM Evaluation Group.

Rivera, N., **Hansen, M.,** & Vo, A. (2008) *The Summer Humanities Institute Experience, UCLA Bunche Center for African-American Studies.* Los Angeles, CA: SRM Evaluation Group.

**Hansen, M.,** & Lawton, E. (2008) *Between a Rock and a Hard Place: The Prevalence and Severity of Unmet Legal Needs in a Pediatric Emergency Department Setting.* Boston: Medical-Legal Partnership for Children.

## Conference Presentations

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Bo, Y. E., **Hansen, M.,** Cai, L., & Lewis, C. (April 2016). *An alternative perspective on subscores and their value.* Paper presented at the National Council on Measurement in Education. Washington, DC.

**Hansen, M.** (April 2016). *An evaluation of methods for establishing crosswalks between instruments.* Poster presented at the National Council on Measurement in Education. Washington, DC.

Shin, N., **Hansen, M.,** & Cai, L. (April 2016). *Comparability study of computer-based and paper-based tests for English language learners.* Paper presented at the National Council on Measurement in Education. Washington, DC.

**Hansen, M.** (July 2014). *Diagnostic classification modeling with multiple higher-order dimensions.* Presentation at the Annual Meeting of the Psychometric Society. Madison, WI.

**Hansen, M.,** & Cai, L. (April 2014). *Detecting and characterizing misspecification of cognitive diagnostic models.* Paper presented at the Annual Meeting of the National Council on Measurement in Education. Philadelphia, PA.

## Conference Presentations (continued)

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**Hansen, M., & Cai, L.** (July 2013). A hierarchical item response model for cognitive diagnosis. Presentation at the Annual Meeting of the Psychometric Society. Arnhem, The Netherlands.

Rickles, J., **Hansen, M., & Wang, J.** (April 2013). Treatment confounded missingness: comparison of methods for addressing censored or truncated data in school reform evaluations. Paper presented at the Annual Meeting of the American Educational Research Association. San Francisco, CA.

**Hansen, M.** (October 2012). A hierarchical item response model for cognitive diagnosis. Presentation at the Society of Multivariate Experimental Psychology Graduate Student Pre-Conference. Vancouver, BC.

**Hansen, M., & Cai, L.** (July 2012). When local dependence diagnostics mislead. Presentation at the Annual Meeting of the Psychometric Society. Lincoln, NE.

**Hansen, M., & Cai, L.** (April 2012). The potential of local dependence diagnostics to inform or mislead. Paper presented at the Annual Meeting of the National Council on Measurement in Education. Vancouver, BC.

Lee, T., **Hansen, M., Yang, J., & Cai, L.** (April 2012). Variability of estimates in generalizability theory: A simulation based confidence interval for reliability coefficients. Paper presented at the Annual Meeting of the National Council on Measurement in Education. Vancouver, BC.

**Hansen, M.** (November 2011). Using Measures of Implementation to Enhance the Interpretability of Experiments. Presentation at the Annual Meeting of the American Evaluation Association. Anaheim, CA.

**Hansen, M., & Cai, L.** (July 2011). Limited-information goodness-of-fit testing of hierarchical item factor models. Presentation at the Annual Meeting of the Psychometric Society. Hong Kong.

Lee, M., **Hansen, M., & Cai, L.** (July 2011). Calibration, scaling, DIF, and projection: A common framework using multidimensional IRT. Presentation at the Annual Meeting of the Psychometric Society. Hong Kong.

**Hansen, M.** (November 2011). Using Measures of Implementation to Enhance the Interpretability of Experiments. Presentation at the Annual Meeting of the American Evaluation Association. Anaheim, CA.

**Hansen, M., & Vo, A.T.** (November 2010). Research on evaluation consequences: A meta-analysis of evaluation use. Presentation at the Annual Meeting of the American Evaluation Association. San Antonio, TX.

## **Professional Activities**

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editorial board *Educational Assessment*  
ad hoc reviewer *American Journal of Evaluation*  
*Educational and Psychological Measurement*  
*Journal of Educational and Behavioral Statistics*  
*Multivariate Behavioral Research*  
*Review of Research in Education*

## **Graduate Student Mentoring**

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advising Eun Ah Kim (MA, Social Research Methodology, 2015)  
Emily Rico (MA, Social Research Methodology, 2015)  
Zhizhi Wu (MA, Social Research Methodology, 2016)

doctoral Erin Higgins (EdD, Educational Leadership, 2015)  
dissertation Karlo Silbinger (EdD, Educational Leadership, 2015)  
committee Zhen (Jane) Li (PhD, Social Research Methodology, 2015)  
Terri Iler (EdD, Educational Leadership, 2016)  
Megan Kuhfeld (PhD, Social Research Methodology, 2016)  
Michelle Castello (EdD, Educational Leadership Program, 2016)  
Danny Dockterman (PhD, Social Research Methodology, 2017)  
Kevin Schaaf (PhD, Social Research Methodology, 2017)  
Glory Tobiason (PhD, Social Research Methodology, 2017)