

Curriculum Vitae

Nathan F. Dieckmann, Ph.D.

Oregon Health and Science University
3181 SW Sam Jackson Park Rd
Portland, OR 97239
dieckman@ohsu.edu

EDUCATION

Ph.D. Psychology, University of Oregon (December 2007).
Focus in Statistics and Decision Science
Advisor: Paul Slovic

M.S. Psychology, University of Oregon (May 2004).

B.A. Psychology, San Francisco State University (May 2001)

PROFESSIONAL EXPERIENCE

Assistant Professor (Statistics and Decision Science) (2012-present)
Director of Statistics Core
School of Nursing
Oregon Health and Science University, Portland, OR.

Partner, Statistical Consultant and Decision Scientist (2012-present)
The IPRE Group (www.ipregroup.com)

Research Scientist (2007 – present)
Decision Research, Eugene, OR. (www.decisionresearch.org)

Founding Partner, Senior Statistical Consultant (2005 – present)
Integrative Analytic Consulting, LLC (www.iacstats.com)

Adjunct Faculty (2009 – 2010)
Psychology Department
University of Oregon, Eugene, OR

Research Coordinator (Feb 2000 – Aug 2002)
Stanford Bipolar Disorders Clinic, Department of Psychiatry & Behavioral Sciences.

TEACHING

Introduction to Structural Equation Modeling

Oregon Health and Science University

Applied Statistics 1

Oregon Health and Science University

Applied Statistics 3: Advanced Measurement

Oregon Health and Science University

Nursing Science Focus Area

Oregon Health and Science University

Multivariate Statistics (2010)

University of Oregon

Thinking (2005, 2006)

University of Oregon

Statistical Methods (2003, 2004)

University of Oregon

Biopsychology (2003, 2004)

University of Oregon

PROFESSIONAL SERVICE

Journal Manuscript Referee – Risk Analysis, Journal of Risk Research, Organizational Behavior and Human Decision Processes, Journal of Behavioral Decision Making, Journal of Experimental Psychology: Applied, Journal of Health, Psychology and Marketing, Social Science and Medicine, BMC Public Health, Psychology and Aging, Health Communication, Quarterly Journal of Experimental Psychology, Social Cognition, Thinking and Reasoning, Behavior Research Methods, Research in Nursing & Health, Learning and Individual Differences, Medical Decision Making, Annals of Epidemiology, Current HIV Research.

Proposal Referee (outside member) – Decision, Risk, and Management Sciences division, National Science Foundation. Perception, Action, and Cognition division, National Science Foundation.

Conference Submission Referee – Society for Judgment and Decision Making annual meeting, 2010.

Member Graduate Admissions Committee – Department of Psychology, University of Oregon, 2003/2004.

Member CRPB Benchmark Committee – School of Nursing, Oregon Health & Science University, 2013-2015.

PROFESSIONAL AFFILIATIONS

American Statistical Association

Society for Risk Analysis

Association for Psychological Science

FUNDING

NIH/NCI - RO1 ('Preventing falls after cancer: Tai chi versus strength training'), 2012-2017. Statistician.

NIH/NCI – R21 ('Influence of exercise and adiposity on biomarkers of breast cancer recurrence'), 2012-2014. Statistician.

National Science Foundation ('Developing Guidelines to Aid in Communicating Uncertainty'), 2012-2015. Co-Principal Investigator.

National League of Nursing ('The impact of simulation based learning activities on nursing students' knowledge, attitude, behavior and empathy related to individuals with schizophrenia'), 2012-2013. Statistician.

National Science Foundation ('Reasoning Processes Underlying Decision Makers' Use of Expert Forecasts'), 2009-2012. Principal Investigator.

American Automobile Association Foundation ('Psychological Foundations of Traffic Safety Culture: A Multilayered Approach to Risk Perception'), 2008-2010. Co-investigator.

National Science Foundation ('The Psychology of Number Processing in Decision Making'), 2008-2011. Co-investigator

National Science Foundation ('Explaining the Education Effect and the Demography of Risk: Comparing Unschooling and Schooling on Everyday Reasoning and Decision-making Skills about Health Behavior'), 2008-2010. Co-investigator

MANUSCRIPTS SUBMITTED

Lyons, K. S., Bennett, J. A., Nail, L. M., Fromme, E., Sayer, A. G., & **Dieckmann, N. F.** (submitted). Pain, physical function, and depressive symptoms in couples living with lung cancer. *Journal of Family Psychology*.

Baker, D., Leon, J., Benavides, M., Peters, E., Eslinger, P., & **Dieckmann, N.F.** (submitted). The cognitive impact of the education revolution: A possible cause of the Flynn effect on population IQ. *Intelligence*.

Dieckmann, N. F., Peters, E., & Gregory, R. (submitted). At home on the range? Lay perceptions of uncertainty distributions. *Risk Analysis*.

Dhingra, L., Lam, K., Cheung, W., Shao, T., Li, Z., Van de Maele, S., Chang, V., Chen, J., **Dieckmann, N. F.**, Ye, H., Wong, R., Lam, W., Chan, S., Bookbinder, M., Portenoy, R. (submitted). The prevalence and burden of cancer symptoms among underserved Chinese American patients. *Journal of Clinical Oncology*.

Lee-Lin, F., Nguyen, T., Pediwala, N., **Dieckmann, N. F.**, & Menon, U. (submitted). An examination of stages of change from the Transtheoretical Model: A Longitudinal study of Chinese Immigrant Women and mammography screening. *Journal of Women's Health*.

Lasater, K., Mood, L., Buchwach, D., **Dieckmann, N. F.** (submitted). Incivility in the workplace: Can education fix it? *Journal of Continuing Education in Nursing*.

PEER REVIEWED PAPERS

Dieckmann, N. F., Peters, E., Baker, D., Leon, J., Benavides, M., Norris, A. (in press). The role of objective numeracy and fluid intelligence in sex-related protective behaviors. *Current HIV Research; Special Issue: Improving risk communication about sexually transmitted diseases: Effective interventions and future directions*.

Miller, L. M., **Dieckmann, N. F.**, Mattek, N. C., Lyons, K. S., & Kaye, J. (in press). Social activity decreases risk of placement in a long-term care facility for a sample of community-dwelling older adults. *Research in Gerontological Nursing*.

Lee-lin, F., Nguyen, T., Pedhiwala, N., **Dieckmann, N. F.**, Menon, U. (in press). A breast health educational program for Chinese American women: Three- to twelve-months post-intervention effect. *American Journal of Health Promotion*.

Weller, J. A., Shackelford, **Dieckmann, N. F.**, Slovic, P. (2013). Possession attachment predicts cell phone use while driving. *Health Psychology, 32*(4), 379-387.

Weller, J. A., **Dieckmann, N. F.**, Tusler, M., Mertz, C.K, Burns, W. J. & Peters, E. (2013). Development and Testing of an Abbreviated Numeracy Scale: A Rasch Analysis Approach. *Journal of Behavioral Decision Making, 26*, 198-212

Winters-Stone, K. M., Fuzhong, L., Horak, F., Luoh, S., Bennett, J., Nail, L., **Dieckmann, N. F.** (2012). Comparison of tai chi vs. strength training for fall prevention among female cancer survivors: Study protocol for the GET FIT trial. *BMC Cancer, 12*(577).

Dieckmann, N. F., Peters, E., Gregory, R., & Tusler, M. (2012). Making sense of uncertainty: Advantages and disadvantages of providing an evaluative structure. *Journal of Risk Research, 15*(7), 717-735.

Gregory, R., **Dieckmann, N. F.**, Peters, E., Failing, L., Long, G., & Tusler, M. (2012). Deliberative disjunction: Expert and public understanding of outcome uncertainty. *Risk Analysis, 32*(12), 2071-83.

Peters, E., Baker, D., **Dieckmann, N. F.**, Leon, J., Collins, J. (2010). Explaining the Effect of Education on Health: A field study in Ghana. *Psychological Science*, 21(10), 1369-1376.

Dieckmann, N. F., Mauro, R., & Slovic, P. (2010). The effects of presenting imprecise probabilities in intelligence forecasts. *Risk Analysis*, 30(6), 987-1001.

Reyna, V. F., Nelson, W., Han, P., & **Dieckmann, N. F.** (2009). How numeracy influences risk reduction and medical decision making. *Psychological Bulletin*, 135(6), 943-973.

Peters, E., **Dieckmann, N. F.**, Västfjäll, D., Mertz, C.K., Slovic, P. & Hibbard, J. H. (2009). Bringing meaning to numbers: The impact of evaluative categories on decisions. *Journal of Experimental Psychology: Applied*, 15(3), 213-227.

Dieckmann, N. F., Slovic, P., & Peters, E. (2009). The use of narrative evidence and explicit likelihood by decision makers varying in numeracy. *Risk Analysis*, 29(10), 1473-1488.

Dieckmann, N. F., Malle, B. F. & Bodner, T. E. (2009). An empirical assessment of meta-analytic practice. *Review of General Psychology, Special Issue: Methodological Problems in Psychology*, 13(2), 101-115.

Peters, E., Hibbard, J. H., Slovic, P. & **Dieckmann, N. F.** (2007). Numeracy skill and the communication, comprehension, and use of risk and benefit information. *Health affairs*, 26(3), 741-748.

Peters, E, **Dieckmann, N.F.**, Dixon, A., Slovic, P., Mertz, C.K. & Hibbard, J. H (2007). Less is more in presenting quality information to consumers. *Medical Care Research and Review*, 64(2), 169-190.

Hall, M., Sedlacek, A., Berenbach, A. & **Dieckmann, N. F.** (2007). Military sexual trauma services for women veterans in the veterans health administration: The patient-care practice environment and perceived organizational support. *Psychological Services*, 4(4), 229-238.

BOOK CHAPTERS

Gregory, R., & **Dieckmann, N. F.** (2013). Communicating about uncertainty in multi-stakeholder groups. In J. Arvai & Rivers (Eds.), *Risk Communication: New Perspectives*. Taylor & Francis.

Peters, E., **Dieckmann, N. F.**, & Weller, J. (2011). Age differences in complex decision making. In K. W. Schaie & S. L. Willis (Eds.), *Handbook of the Psychology of Aging (7th Ed)*. San Diego, CA: Academic Press.

Peters, E., Hibbard, J. H., Slovic, P. & **Dieckmann, N. F.** (2010). Numeracy skill and the communication, comprehension, and use of risk and benefit information. In P. Slovic (Ed.), *The Feeling of Risk: New Perspectives on Risk Perception (The Earthscan Risk in Society Series)*. Washington, DC: Earthscan.

Ketter, T. A., Wang, P. W., **Dieckmann, N. F.**, Lembke, A., Becker, O. & Camilleri, C. (2003). Brain Anatomic Circuits and the Pathophysiology of Affective Disorders. In J. C. Soares (Ed.), *Brain Imaging in Affective Disorders*. New York, NY: Marcel Dekker.

TECHNICAL REPORTS

Weller, J. A., **Dieckmann, N. F.**, Mauro, R., & Slovic, P. (2010). Psychological foundations of cell-phone related distracted driving behavior: Implications for traffic safety culture. Technical report: AAA Foundation.

Dieckmann, N. F. (2007). Numeracy: A review of the literature (Report No. 08-2). Eugene, OR: Decision Research.

Mauro, R., Barshi, I., **Dieckmann, N. F.** & Shepler, C. (2006). TRIAD: Tool for risk identification, assessment, & display. Technical Report: NASA.

INVITED PRESENTATIONS

Dieckmann, N. F. (2013). Seeing what you want to see: The motivated evaluation of uncertain information. Scholar of the Month address, Oregon Health & Science University, January 16th.

Dieckmann, N. F. (2012). Making sense of uncertainty. Federal Drug Administration Advisory Committee on Risk Communication, June 29th, 2012.

Dieckmann, N. F., & Peters, E. (2011). Decision making under uncertainty: How numerical ability affects the use of uncertainty information. Annual Meeting of the American Meteorological Society, Seattle, Washington, January 22-27.

CONFERENCE PAPER PRESENTATIONS

Lee-Lin, F., Nguyen, T., Pedhiwala, N., **Dieckmann, N. F.**, Menon, U. (2014). Breast health interventions effects on knowledge and beliefs overtime among Chinese American immigrants—A randomized controlled study. Proceedings of the International Conference on Cancer Nursing, Panama City, Panama, September 7-11.

Dieckmann, N. F., Peters, E., Gregory, R. (2013). The motivated evaluation of numerical uncertainty ranges. Proceedings of the Society for Risk Analysis, Baltimore, MD, December 8-11.

Lasater, K., Gordon, M. A., Brunett, P., Mathews, L. R., & **Dieckmann, N. F. (2013).** IPE Collaboration Intensive: Planning, implementing, and evaluating. Proceedings of the National League of Nursing Summit, Washington, DC, September 21st.

Lee-Lin, F., Nguyen, T., Pedhiwala, N., **Dieckmann, N. F.**, Menon, U. (2013). A breast health educational program for Chinese American women: Three- to twelve-months post-intervention effect. Proceedings of the International Cancer Education Conference, Seattle, WA, September 18-21.

Dieckmann, N. F. (2013). Decision making under uncertainty: How health numeracy affects the use of uncertainty information. OHSU Research week, May 20-24th.

Dieckmann, N. F., Gregory, R., Peters, E. (2012). Evaluative structures to aid understanding of uncertainty. Symposium entitled “Implementing structured decision making: Policy and Personal Perspectives”. Proceedings of the Society for Risk Analysis, San Francisco, CA, December 9-12.

Dieckmann, N. F., Peters, E. (2012). Decision making among older adults. Symposium entitled “Personalizing cancer screening for the older adult”. Proceeding of the Gerontological Society of America, San Diego, CA, November 14-18th.

Dieckmann, N. F., Peters, E., Gregory, R., & Tusler, M. (2011). Exploring the use of evaluative labels to increase the salience of uncertainty information. Annual Meeting of the Society for Risk Analysis, Charleston, South Carolina, December 4-7.

Peters, E., Baker, D. P., **Dieckmann, N. F.,** Leon, J., & Collins, J. (2010). Testing a Schooling-Decision-Making model: A field study in Ghana. Proceedings of the Society for Judgment and Decision Making, St. Louis, MO, November 19-22.

Peters, E., Baker, D. P., **Dieckmann, N. F.,** Leon, J., & Collins, J. (2010). Explaining the education effect on health: A field study in Ghana. Proceedings of the Society for Medical Decision Making, Toronto, Canada, October 24-27.

Baker, D. P., Collins, J., Leon, J., Peters, E., **Dieckmann, N. F.,** & Halabi, S. (2009). The education effect on cognition and risk assessment: Comparing unschooled and schooled populations. Proceedings of the Annual Meeting of the Comparative and International Education Society, Charleston, SC, March 22-26.

Peters, E., **Dieckmann, N.F.,** Västfjäll, D., Mertz, C.K., Slovic, P. & Hibbard, J. H (2008). Bringing meaning to numbers: Preference construction and affect in health decisions, Proceedings of the 29th Annual Meeting for Medical Decision Making. Philadelphia, PA, October 18-22.

Dieckmann, N.F., Peters, E., Västfjäll, D., Mertz, C.K. & Slovic, P. (2006). Numeracy and Mood in Decision Making, Proceedings of the 27th Annual Meeting of the Society for Judgment and Decision-making. Houston, TX, November 18-20.

CONFERENCE POSTER PRESENTATIONS

Dhingra, L., Lam, K., Cheung, W., Shao, T., Li, Z., Van de Maele, S., Chang, V., Chen, J., **Dieckmann, N. F.,** Ye, H., Wong, R., Lam, W., Chan, S., Bookbinder, M., Portenoy, R. (2014). Symptom burden cluster in underserved Chinese American cancer patients. Proceedings of the 33rd Annual Meeting of the American Pain Society.

Woodworth, G., Cohen, J., Kopp, S., Vokach, L., Horn, J., Missair, A., Banks, S., Carney, P., **Dieckmann, N. F.,** & Maniker, R. (2014). Validation of a test of regional anesthesia interpretation skills. Proceedings of the 39th Annual Meeting of the American Society of Regional Anesthesia. Chicago, IL, April 3-6th.

Lasater, K., Mood, L., Buchwach, D., **Dieckmann, N. F.** (2014). Incivility in the workplace: Can education fix it? Proceedings of 5th International Nurse Education Conference, Noordwijkerhout, The Netherlands, June 22-25.

Docherty, A., & **Dieckmann, N. F.** (2014). Is there evidence of “failing to fail” in schools of

nursing? Proceedings of the Western Institute of Nursing's 47th Annual Communicating Nursing Research Conference. Seattle, WA, April 9-12.

Miller, L.M., **Dieckmann, N. F.**, Mattek, N., Lyons, K.S., and Kaye, J.A. (2013). Risk of Placement in a Care Facility: The Roles of Social Activity, Sleep, Pain, and Depression. Proceedings of the 66th Annual Meeting of the Gerontological Society of America. New Orleans, LA, November 20-24.

Miller, L.M., **Dieckmann, N. F.**, Mattek, N., Lyons, K.S., and Kaye, J.A. (2013). Social activity decreases risk of placement in a long-term care facility for a sample of community-dwelling older adults. OHSU Research week, May 20-24th.

Hansen, L., **Dieckmann, N.F.**, & Rosenkranz, S. (2012). Living with hepatocellular carcinoma (HCC), the patient and family perspective. Proceedings of the Annual Meeting of the American Cancer Society. Chicago, IL, March 31st-April 4th.

Dieckmann, N. F., Weller, J., Tusler, M., & Peters, E. (2009). An abbreviated measure of numeracy. Proceedings of the Annual Meeting of the Subjective Probability, Uncertainty, and Decision Making, Rovereto, Italy, August 23-27.

Dieckmann, N. F., Mauro, R., & Slovic, P. (2008). The effects of presenting imprecise probabilities in intelligence forecasting, Proceedings of the Annual Meeting of the Society of Risk Analysis, Boston, MA, December 7-10.

Dieckmann, N.F., Mauro, R. & Slovic, P. (2007). Consumer perceptions of intelligence forecasts, Proceedings of the 28th Annual Meeting of the Society for Judgment and Decision-making. Long Beach, CA, November 17-19.

Peters, E, **Dieckmann, N.F.**, Dixon, A., Mertz, C.K., Slovic, P. & Hibbard, J. H (2006). Less is more in presenting quality information to consumers, Proceedings of the 28th Annual Meeting for Medical Decision Making. Boston, MA, October 14-18.

Dieckmann, N. F. & Malle, B. F. (2005). An empirical review of meta-analysis with suggestions for JDM, Proceedings of the 26th Annual Meeting of the Society for Judgment and Decision-making. Toronto, Canada. November 11-14.

Dieckmann, N. F., Cook, J., Dickert, S., Holbrook, J. & Bodner, T. (2005). An empirical assessment of meta-analytic practice. Proceedings of the 17th Annual Meeting of the American Psychological Society. Los Angeles, May 26 - 29.

Sachs, B. C., Thomas, K. G. F., **Dieckmann, N. F.** & Bauer, R. M. (2005). Memory and anterior temporal lobectomy: Critique of Lee et al.'s (2002) meta-analysis. Proceedings of the 17th Annual Meeting of the American Psychological Society. Los Angeles, May 26 – 29.

Dickert, S., **Dieckmann, N. F.**, Peters, E. & Slovic, P. (2004). Positive Affect and the Endowment Effect: A Mediation Analysis, Proceedings of the 25th Annual Meeting of the Society for Judgment and Decision-making Minneapolis, November 20-22.

Dieckmann, N. F., Dickert, S., Peters, E. & Slovic, P. (2004). Positive Affect Mediates the Impact of Buyer/Seller Status on Likelihood Estimations and Prices in the Endowment Effect,

Proceedings of the 16th Annual Meeting of the American Psychological Society. Chicago, May 20 - 23.

Dieckmann, N. F., Wang, P. W., Becker, O. & Ketter, T.A. (2002). Decreased Left Frontal Lobe Gray Matter in Men with Bipolar I Disorder. Proceedings of the 155th Annual Meeting of the American Psychiatric Association. Philadelphia, May 18 – 23.

Wang, P. W., **Dieckmann, N. F.**, Sailasuta, N., Adalsteinsson, E., Spielman, D. & Ketter, T. A. (2002). Decreased Prefrontal Cortical Gamma-Aminobutyric Acid (GABA) Levels in Bipolar Disorder Patients vs Healthy Volunteers. Proceedings of the 155th Annual Meeting of the American Psychiatric Association. Philadelphia, May 18 – 23.

Dieckmann, N. F., Wang, P. W., Sachs, N., Tate, D., Rennie, C. & Ketter, T.A. (2001). Frontal Lobe Gray Matter Volume and Biochemical Differences in Bipolar Disorder. Proceedings of the 154th Annual Meeting of the American Psychiatric Association. New Orleans, May 5 –10.

Wang, P.W., Sachs, N., **Dieckmann, N. F.**, Sailasuta, N., Adalsteinsson, E., Spielman, D. & Ketter, T. A. (2001). 3 Tesla ¹H-Magnetic Resonance Spectroscopic Detection of Cerebral Gamma-aminobutyric acid (GABA) in Bipolar Disorder Patients and Healthy volunteers. Proceedings of the 56th Annual Convention and Scientific Program of the Society of Biological Psychiatry. New Orleans, May 3 – 5.