

Curriculum Vitae

Nathan F. Dieckmann, Ph.D.

Decision Research
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EDUCATION

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

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

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

PROFESSIONAL EXPERIENCE

Research Scientist (2007 – present)

Decision Research, Eugene, OR. (www.decisionresearch.org)

Decision Research is a non-profit research organization investigating human judgment, decision-making, and risk. We conduct both basic and applied research in a variety of areas including health policy, medicine, aviation, environmental risk, finance, and law. We receive funding from US government agencies (including the National Institutes of Health, Environmental Protection Agency, National Science Foundation, and the National Aeronautics and Space Administration) and from private companies and philanthropic organizations.

Founding Partner, Senior Statistical Consultant (2005 – present)

Integrative Analytic Consulting, LLC (www.iacstats.com)

IAC offers consultation services in research design and applied statistical analysis for both basic research and applied problems. We work in a variety of areas including healthcare, natural and social sciences, education, business, and government.

Adjunct Faculty (2009 – 2010)

University of Oregon

Research Associate (2004 – 2007)

Decision Research, Eugene, OR.

Research Coordinator (Feb 2000 – Aug 2002)

Stanford Bipolar Disorders Clinic, Department of Psychiatry & Behavioral Sciences.

TEACHING

Instructor:

Psy 613: Graduate Statistics – Multivariate (2010)

University of Oregon

Psy 330: Thinking (2005, 2006)

University of Oregon

Psy 302: Statistical Methods (2003, 2004)

University of Oregon

Psy 304: Biopsychology (2003, 2004)

University of Oregon

Teaching Assistantships:

Psy 611: Graduate Statistics – Data Analysis I (2004, 2005, 2006, 2007)

University of Oregon

Psy 612: Graduate Statistics – Data Analysis II – Regression (2005, 2006, 2007)

University of Oregon

Psy 613: Graduate Statistics – Data Analysis III – Multivariate (2005, 2006, 2007)

University of Oregon

Psy 436: Human Performance & Engineering Psychology (2003)

University of Oregon

Psy 303: Research Methods (2003)

University of Oregon

Psy 201: Mind and Brain (2003)

University of Oregon

Psy 304: Biopsychology (2002)

University of Oregon

Psy 76Q: Neurobiology of Mood, Temperament, and Creativity (2002)

Psychiatry & Behavioral Sciences -- Stanford University

PROFESSIONAL SERVICE

Journal Manuscript Referee – Risk Analysis, 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.

Proposal Referee (outside member) – Decision, Risk, and Management Sciences division, National Science Foundation, 2009-present. Perception, Action, and Cognition division, National Science Foundation, 2011.

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

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

PROFESSIONAL AFFILIATIONS

American Statistical Association

Society for Risk Analysis

Society for Judgment and Decision Making

Funding

National Science Foundation (‘Reasoning Processes Underlying Decision Makers’ Use of Expert Forecasts), \$279,541, 2009-2012. Principal Investigator.

American Automobile Association Foundation (‘Psychological Foundations of Traffic Safety Culture: A Multilayered Approach to Risk Perception’), \$199,957, 2008-2010. Co-investigator.

National Science Foundation (‘The Psychology of Number Processing in Decision Making’), \$537,953, 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’), \$153,728, 2008-2010. Co-investigator

PEER REVIEWED PAPERS

Weller, J. A., Shackelford, **Dieckmann, N. F.**, Slovic, P. (**in press**). Possession attachment predicts cell phone use while driving. *Health Psychology*.

Weller, J. A., **Dieckmann, N. F.**, Tusler, M., Mertz, C.K., & Peters, E. (**in press**). Development and Testing of an Abbreviated Numeracy Scale: A Rasch Analysis Approach. *Journal of Behavioral Decision Making*.

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

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)*. City, State: 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.

UNPUBLISHED MANUSCRIPTS & TECHNICAL REPORTS

Dieckmann, N. F., Peters, E., Gregory, R., & Tusler, M. (under review). Making sense of uncertainty: Advantages and disadvantages of providing an evaluative structure. *Journal of Risk Research*.

Gregory, R., **Dieckmann, N. F.**, Peters, E., Failing, L., Long, G., & Tusler, M. (**under review**). Deliberative disjunction: Expert and public understanding of outcome uncertainty. Risk Analysis.

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.

Dieckmann, N. F. (2007). Communicating Risk in Intelligence Forecasts: The Consumer's Perspective. Unpublished Doctoral Dissertation, University of Oregon.

Peters, E., **Dieckmann, N. F.**, Vastfjall, D., Mertz, C. K., Slovic, P., & Hibbard, J. (**2006**). Bringing meaning to numbers: The functions of affect in choice (Report No. 06-01). Eugene, OR: Decision Research.

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

Dieckmann, N. F., Bala, J. & Dasonville, P. (**2004**). Response Bias Manipulations Modulate Fusiform Face Area Activity: An fMRI study. Unpublished Master's Thesis, University of Oregon.

CONFERENCE PRESENTATIONS

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

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. Invited paper presentation.

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. Paper.

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. Paper.

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. Poster.

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. Paper.

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. Poster.

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. Paper.

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. Poster.

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. Paper.

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. Poster.

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. Poster.

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. Poster.

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. Poster.

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. Poster.

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. Poster.

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 15th Annual Meeting of the American Psychiatric Association. Philadelphia, May 18 – 23. Poster.

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. Poster.

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. Poster.

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. Poster.