

CURRICULUM VITAE

Donald Hedeker
hedeker@uic.edu

(312) 996-4896

University of Illinois at Chicago
School of Public Health (M/C 923)
Division of Epidemiology and Biostatistics
1603 West Taylor Street, Room 955
Chicago, Illinois 60612-4394

EDUCATION:

Ph.D., University of Chicago, 1989, Department of Behavioral Sciences, Committee on Research Methodology and Quantitative Psychology, *Random Regression Models with Autocorrelated Errors: Investigating Drug Plasma Levels and Clinical Response* (Advisor: R. Darrell Bock).

B.A., University of Chicago, 1980, Economics.

HONORS:

- L. L. Thurstone Predoctoral Fellowship, University of Chicago, 1981-1984.
- Fellow, American Statistical Association, 2000.
- University Scholar, University of Illinois, 2000-2003.
- President, Chicago Chapter of the American Statistical Association, 2000-2001.
- Teaching Recognition Program Award, Council for Excellence in Teaching and Learning, University of Illinois at Chicago, 2004-2005.
- ASPH/Pfizer Public Health Academy of Distinguished Teachers, 2007.

ACADEMIC APPOINTMENTS:

[2001-present] **Professor of Biostatistics**, Division of Epidemiology and Biostatistics, School of Public Health, University of Illinois at Chicago.

[2002-2003] **Interim Division Director**, Division of Epidemiology and Biostatistics, School of Public Health, University of Illinois at Chicago.

[1996-2001] **Associate Professor of Biostatistics**, Division of Epidemiology and Biostatistics, School of Public Health, University of Illinois at Chicago.

[1993-1996] **Assistant Professor of Biostatistics**, Division of Epidemiology and Biostatistics, School of Public Health, University of Illinois at Chicago.

[1991-1993] **Adjunct Assistant Professor of Biostatistics**, Department of Psychiatry, University of Illinois at Chicago.

[1991-1993] **Associate Director of Statistics and Methods Core**, Prevention Research Center, School of Public Health, University of Illinois at Chicago.

[1989-1991] **Senior Research Specialist**, Department of Psychiatry, University of Illinois at Chicago.

Courses Taught - University of Illinois at Chicago

School of Public Health : Biostatistics II (Spring 1994, Fall 1994-99, Spring 2003-09),
Longitudinal Data Analysis (Spring 1995,1997,1999, Fall 2000-08).

Department of Psychology : Advanced Statistics II (Spring 1993).

Department of Sociology : Multilevel Analysis of Social Data (Spring 1992).

Doctoral Dissertation Advisor (Biostatistics)

- Weichun Xu, 1995, *Mixtures in Random-effects Regression Models*.
- Ohidul Siddiqui, 1996, *Modeling Clustered Count and Survival Data with an Application to a School-based Smoking Prevention Study*.
- Kwan Hur, 1999, *A Random-effects Zero-inflated Poisson Regression Model for Clustered Extra-zero Count Data*.
- Rema Raman, 2002, *Mixed-effects Regression Models for Three-level Ordinal Response Data with Heterogeneous Variances*.
- Li Qi, 2003, *A Mixed-Effects Model for Longitudinal Multivariate Ordinal Data*.

Doctoral Dissertation Committee Member

- Lester M. Arguelles, Epidemiology, 2005
- Subhash Aryal, Biostatistics, 2008
- Suna Barlas, Biostatistics, 1998
- Jane Burke-Miller, Community Health Sciences, 2008
- Jerrilyn Cambron, Epidemiology, 2005
- Michelle Colledge, Environmental and Occupational Health Sciences, 2008
- Mehul R. Dalal, Pharmacy, 2004
- Sonia Duffy, Community Health Sciences, 1999
- Xin Fang, Statistics, 2006
- Mary Fischer, Epidemiology, 2002
- George Fitchett, Epidemiology, 2007
- Kirsty Forsyth, Community Health Sciences, 2000
- Lee Friedman, Environmental and Occupational Health Sciences, 2006
- Sasha Gao, Biostatistics, 2007
- Anthony Garcy, Sociology, 2002
- Alyson Henry, Psychology, 1996

- Frank Bingchang Hu, Epidemiology, 1996
- Dezheng Huo, Epidemiology, 2004
- Varant Kupelian, Epidemiology, 2004
- Steven Lacey, Environmental and Occupational Health Sciences, 2002
- Hak-Myung Lee, Biostatistics, 1998
- Gang Li, Statistics, 2005
- Xin Liu, Education, 2006
- Trudy Mallinson, Community Health Sciences, 2000
- Christine Mattson, Epidemiology, 2007
- Amy Pelka Mucha, Environmental and Occupational Health Sciences, 2003
- Mary Pabst, Health Policy and Administration, 1998
- Eisuke Segawa, Department of Behavioral Sciences, University of Chicago, 1998
- Mikyong Shin, Community Health Sciences, 2006
- Gigi Thomas, Health Policy and Administration, 2000
- James Thomas, Kinesiology, 2000
- Lindsey Turner, Psychology, 2002
- Li Wei, Statistics, 2007
- Sally Weinstein, Psychology, 2008
- Wenting Wu, Statistics, 2006
- Zhiwu Yan, Statistics, 2006
- Hongjun Yin, Pharmacy, 2005
- Weiya Zhang, Statistics, 2007
- Shi Zhao, Statistics, 2008

RESEARCH SUPPORT:

2005-2008 *Statistical Testing and Power for Mental Health*. National Institute of Mental Health, grant R01 MH69353, \$170,750 (annual direct costs), Bhaumik, D. (PI), **Hedeker, D. (co-I)**.

2004-2009 *Social-Emotional Contexts of Adolescent Smoking Patterns*. National Cancer Institute, program project PO1 CA098262, \$2,049,920 (annual direct costs), Mermelstein, R.J. (PI), **Hedeker, D. (PI of Data Management, Measurement, and Statistics core)**.

- 2004-2007 *A Multivariate Probit Model for Health Services Research*. National Institute of Mental Health, grant R01 MH67198, \$135,000 (annual direct costs), Chen, H.Y. **Hedeker, D. (co-I)**.
- 2002-2006 *Mixed-Effects ZIP Models for Mental Health Research*. National Institute of Mental Health, grant R01 MH65556, \$150,000 (annual direct costs), Gibbons, R.D. (PI), **Hedeker, D. (co-I)**.
- 2000-2003 *Mentoring and Education of Services Research*. National Institute of Mental Health, grant R25 MH60250, Horwitz, S. (PI, Yale University), **Hedeker, D. (PI of subcontract)**.
- 1999-2005 *Statistical Models for Nested Services Utilization Data*. National Institute of Mental Health, competitive renewal of grant R01 MH56146, \$768,729 (Direct Costs), **Hedeker, D. (PI)**.
- 1999-2005 *Carbohydrate Craving: Behavioral and Psychobiological Features*. National Heart, Lung, and Blood Institute, grant R01 HL/DK63307, \$346,618 (annual direct costs), Spring B. (PI), **Hedeker, D. (co-I)**.
- 1998-2002 *Context and Subjective Experience of Early Smoking*. National Cancer Institute grant CA80266, \$1,256,886 (Direct Costs), Mermelstein, R.J. (PI), **Hedeker, D. (co-I)**.
- 1996-1999 *Statistical Models for Nested Services Utilization Data*. National Institute of Mental Health, grant R01 MH56146, \$218,048 (Direct Costs), **Hedeker, D. (PI)**.
- 1996-1999 *A Motor Test for Pediatric Rehabilitation*. National Institute of Child Health and Human Development grant R01 HD32567, Campbell, S.K. (PI), **Hedeker, D. (co-I)**.
- 1994-1998 *Skin Cancer Prevention for Children and Adolescents*. National Cancer Institute, grant NCI 62964, \$656,256 (Direct Costs), Mermelstein, R.J. (PI), **Hedeker, D. (co-I)**.
- 1994-1997 *Random Regression Models for Longitudinal Psychiatric Data*. National Institute of Mental Health, grant R01 MH44826, \$473,081 (Direct Costs), Gibbons, R.G. (PI), **Hedeker, D. (co-PI)**.
- 1993-1998 *Recycling Attempters and Relapsers in Smoking Cessation*. National Heart, Lung, and Blood Institute, grant R01 HL42485, \$1,083,265 (Direct Costs), Mermelstein, R.J. (PI), **Hedeker, D. (co-I)**.
- 1993-1997 *Program Project: Strategies for Smoking Cessation among Low Educated Women, Core B: Methods and Statistics Core*. National Cancer Institute, grant PO1-CA-4270, \$4,807,918 (Direct Costs for entire program project), Warnecke, R. (PI), **Hedeker, D. (co-I)** and PI of developmental project.
- 1993-1998 *Health Promotion and Disease Prevention Research Center*. Centers for Disease Control, \$2,027,956 (Direct Costs for entire center), Levy, S. (PI), **Hedeker, D. (co-I)**.
- 1992-1993 *Ordinal Outcomes from Longitudinal Clustered Designs*. University of Illinois at Chicago Prevention Research Center Developmental Project, CDC grant R48/CCR505025, \$5,744 (Direct Costs), **Hedeker, D. (PI)**.

- 1992-1995 *Transition to Parenthood: Gender roles and Distress*. Health Resources and Service Administration, grant MCJ 170618, \$448,146 (Direct Costs), Kelley, M. (PI), **Hedeker, D. (co-I)**.
- 1992-1998 *Chicago African-American Health Behavior Project*. National Institute for Child Health and Human Development, grant HD30078, \$3,383,072 (Direct Costs), Flay, B.R. (PI), **Hedeker, D. (co-I)**.
- 1991-1993 *Random Regression Models for Longitudinal Psychiatric Data*. National Institute of Mental Health, grant R01 MH44826, \$318,997 (Direct Costs), Gibbons, R.D. (PI), **Hedeker, D. (co-PI)**.
- 1991-1992 *Statistical Issues in Drug Prevention Research: Ordinal Outcomes*. University of Illinois at Chicago Prevention Research Center Developmental Project, CDC grant R48/CCR505025, \$8,944 (Direct Costs), **Hedeker, D. (PI)**.
- 1991-1995 *Etiology of Drug Use and Abuse*. National Institute of Drug Abuse, grant DA 06307, \$1,950,000 (Direct Costs), Flay, B.R. (PI), **Hedeker, D. (co-I)**.
- 1990-1995 *Worksite Incentives for becoming a Nonsmoker*. National Heart, Lung, and Blood Institute, grant R18 HL42987, \$1,036,882 (Direct Costs), Jason, L.A. (PI), **Hedeker, D. (co-PI)**.

PUBLICATIONS - Journal Articles:

- Fawcett, J., Clark, D. C., Scheftner, W. A., & **Hedeker, D.** (1983). Differences between anhedonic and normally hedonic depressive states. *American Journal of Psychiatry*, *140*, 1027-1030.
- de Wit, H., Uhlenhuth, E. H., **Hedeker, D.**, McCracken, S. G., & Johanson, C. E. (1986). Lack of preference for diazepam in anxious volunteers. *Archives of General Psychiatry*, *43*, 533-541.
- Janicak, P. G., Davis, J. M., Chan, C., Altman, E., & **Hedeker, D.** (1986). Failure of urinary MHPG levels to predict treatment response in patients with unipolar depression. *American Journal of Psychiatry*, *143*, 1398-1402.
- Fawcett, J., Scheftner, W. A., Clark, D. C., **Hedeker, D.**, Gibbons, R. D., & Coryell, W. (1987). Clinical predictors of suicide in patients with major affective disorders: a controlled prospective study. *American Journal of Psychiatry*, *144*, 35-40.
- Gibbons, R. D., **Hedeker, D.**, & Davis, J. M. (1987). Regression toward the mean: more on the price of beer and the salaries of priests. *Psychoneuroendocrinology*, *12*, 185-192.
- Chan, C. H., Janicak, P. G., Davis, J. M., Altman, E., Andriukaitis, S., & **Hedeker, D.** (1987). Response of psychotic and nonpsychotic depressed patients to tricyclic antidepressants. *Journal of Clinical Psychiatry*, *48*, 197-200.
- Clark, D. C., Daugherty, S. R., Zeldow, P. B., Gotterer, G. S., & **Hedeker, D.** (1988). The relationship between academic performance and severity of depressed mood during medical school. *Comprehensive Psychiatry*, *29*, 409-420.

- Gibbons, R. D., **Hedeker, D.**, Waternaux, C., & Davis, J. M. (1988). Random regression models: a comprehensive approach to the analysis of longitudinal psychiatric data. *Psychopharmacology Bulletin*, *24*, 438-443.
- Hedeker, D.**, Gibbons, R. D., Waternaux, C., & Davis, J. M. (1989). Investigating drug plasma levels and clinical response using random regression models. *Psychopharmacology Bulletin*, *25*, 227-231.
- Clark, D. C., Sommerfeldt, L., Schwarz, M., **Hedeker, D.**, & Watel, L. (1990). Physical recklessness in adolescence: trait or by-product of depressive/suicidal states? *Journal of Nervous and Mental Disease*, *178*, 423-433.
- Fawcett, J., Scheftner, W. A., Fogg, L., Clark, D. C., Young, M. A., **Hedeker, D.**, & Gibbons, R. D. (1990). Time related predictors of suicide in major affective disorder. *American Journal of Psychiatry*, *147*, 1189-1194.
- Hedeker, D.**, Gibbons, R. D., & Davis, J. M. (1991). Random regression models for multi-center clinical trials data. *Psychopharmacology Bulletin*, *27*, 73-77.
- Altman, E., **Hedeker, D.**, Davis, J. M., Comaty, J. E., Jobe, T. H., & Levy, D. L. (1991). Neuropsychological test deficits are associated with smooth pursuit eye movement impairment in affective disorders but not in schizophrenia. *International Journal of Clinical Neuropsychology*, *12*, 49-59.
- Javaid, J. I., Janicak, P. G., **Hedeker, D.**, Sharma, R. P., & Davis, J. M. (1991). Steady-state plasma level prediction for haloperidol from a single test dose. *Psychopharmacology Bulletin*, *27*, 83-88.
- Jason, L., Salina, D., **Hedeker, D.**, Kimball, P., Kaufman, J., Bennett, P., Bernstein, R., & Lesondak, L. (1991). Designing an effective worksite smoking cessation program using self-help manuals, incentives, groups and media. *Journal of Business and Psychology*, *6*, 155-166.
- Sharma, R. P., **Hedeker, D.**, Pandey, G., Janicak, P. G. & Davis, J. M. (1992). A longitudinal study of plasma cortisol and depressive symptomatology by random regression analysis. *Biological Psychiatry*, *31*, 304-314.
- Gibbons, R. D., & **Hedeker, D.** (1992). Full-information item bi-factor analysis. *Psychometrika*, *57*, 423-436.
- Charles, S. C., Gibbons, R. D., Frisch, P. R., Pyskoty, C. E., **Hedeker, D.**, & Singha, B. S. (1992). Predicting risk for medical malpractice claims utilizing selected quality of care characteristics. *The Western Journal of Medicine*, *157*, 433-439.
- Casper, R. C., **Hedeker, D.**, & McClough, J. F. (1992). Personality dimensions in eating disorders and their relevance for subtyping. *Journal of the American Academy of Child and Adolescent Psychiatry*, *31*, 830-840.
- Clark, D. C., Daugherty, S. R., DeWitt, C. B., Hughes, P. H., Storr, C. L., & **Hedeker, D.** (1992). Assessment of drug involvement: applications to a sample of physicians in training. *British Journal of Addiction*, *87*, 1649-1662.

- Goldman, M. B., Marks, R. C., Blake, L., Petkovic, M., **Hedeker, D.**, & Luchins, D. J. (1992). Estimating daily urine volume in psychiatric patients: empiric confirmation. *Biological Psychiatry*, *31*, 1228-1231.
- Appleby, L. Desai, P. N., Luchins, D. J., Gibbons, R. D., & **Hedeker, D.** (1993). Length of stay and recidivism in schizophrenia: a study of public psychiatric hospital patients. *American Journal of Psychiatry*, *150*, 72-76.
- Gruder, C. L., Mermelstein, R. J., Kirkendol, S., **Hedeker, D.**, Wong, S. C., Schreckengost, J., Warnecke, R. B., Burzette, R., & Miller, T. Q. (1993). Effects of social support and relapse prevention training as adjuncts to a televised smoking cessation intervention. *Journal of Consulting and Clinical Psychology*, *61*, 113-120.
- Goldman, M. B., Blake, L., Marks, R. C., **Hedeker, D.**, & Luchins, D. J. (1993). Association of nonsuppression of cortisol on the DST with primary polydipsia in chronic schizophrenia. *American Journal of Psychiatry*, *150*, 653-655.
- Gibbons, R. D., **Hedeker, D.**, & Davis, J. M. (1993). Estimation of effect size from a series of experiments involving paired comparisons. *Journal of Educational Statistics*, *18*, 271-279.
- Gibbons, R. D., **Hedeker, D.**, Elkin, I., Waternaux, C., Kraemer, H. C., Greenhouse, J. B., Shea, M. T., Imber, S. D., Sotsky, S. M., & Watkins, J. T. (1993). Some conceptual and statistical issues in analysis of longitudinal psychiatric data. *Archives of General Psychiatry*, *50*, 739-750.
- Reyes, O. & **Hedeker, D.** (1993). Identifying high-risk students during school transition. *Prevention in Human Services*, *10*, 137-150.
- Nader, M. A., **Hedeker, D.**, & Woolverton, W. L. (1993). Behavioral economics and drug choice: effects of unit price on cocaine consumption by monkeys. *Drug and Alcohol Dependence*, *33*, 193-199.
- Altman, E. G., **Hedeker, D.**, Janicak, P., Peterson, J. L., & Davis, J. M. (1994). The clinician-administered rating scale for mania (CARS-M): development, reliability, and validity. *Biological Psychiatry*, *36*, 124-134.
- Altman, E. G., Peterson, J. L., **Hedeker, D.**, Janicak, P., & Davis, J. M. (1994). Videotaped reliability in a multicenter collaborative investigation of divalproex sodium for the treatment of mania. *Human Psychopharmacology*, *9*, 197-202.
- Gibbons, R. D., & **Hedeker, D.** (1994). Application of random-effects probit regression models. *Journal of Consulting and Clinical Psychology*, *62*, 285-296.
- Hedeker, D.**, Gibbons, R. D., & Flay, B. R. (1994). Random-effects regression models for clustered data: with an example from smoking prevention research. *Journal of Consulting and Clinical Psychology*, *62*, 757-765.
- Gibbons, R. D., **Hedeker, D.**, Charles, S. C., & Frisch, P. R. (1994). A random-effects probit model for predicting medical malpractice claims. *Journal of the American Statistical Association*, *89*, 760-767.

- Flay, B. R., Hu, F. B., Siddiqui, O., Day, L. E., **Hedeker, D.**, Petraitis, J., Richardson, J., & Sussman, S. (1994). Differential influence of parental smoking and friends' smoking on adolescent initiation and escalation of smoking. *Journal of Health and Social Behavior*, *35*, 248-265.
- Salina, D., Jason, L. A., **Hedeker, D.**, Kaufman, J., Lesondak, L., McMahon, S. D., Taylor, S., & Kimball, P. (1994). A follow-up of a media-based, worksite smoking cessation program. *American Journal of Community Psychology*, *22*, 257-271.
- Hedeker, D.**, & Gibbons, R. D. (1994). A random-effects ordinal regression model for multilevel analysis. *Biometrics*, *50*, 933-944.
- Hedeker, D.**, McMahon, S. D., Jason, L. A., & Salina, D. (1994). Analysis of clustered data in community psychology: with an example from a worksite smoking cessation project. *American Journal of Community Psychology*, *22*, 595-615.
- Flay, B. R., Miller, T. Q., **Hedeker, D.**, Siddiqui, O., Britton, C. F., Brannon, B. R., Johnson, C. A., Hansen, W. B., Sussman, S., & Dent, C. (1995). The television school and family smoking prevention and cessation project: VIII. student outcomes and mediating variables. *Preventive Medicine*, *24*, 29-40.
- Levy, S. R., Weeks, K., Handler, A. Perhats, C., Franck, J., **Hedeker, D.**, Zhu, C., & Flay, B. R. (1995). A longitudinal comparison of parent and child HIV-related attitudes and knowledge. *Family Planning Perspectives*, *27*, 4-10,17.
- Jason, L., McMahon, S.D., Salina, D., **Hedeker, D.**, Stockton, M., Dunson, K., & Kimball, P. (1995). Assessing a smoking cessation intervention involving groups, incentives, and self-help manuals. *Behavior Therapy*, *26*, 393-408.
- Elkin, I., Gibbons, R. D., Shea, M. T., Sotsky, S. M., Watkins, J. T., Pilkonis, P. A., & **Hedeker, D.** (1995). Initial severity and differential treatment outcome in the NIMH treatment of depression collaborative research program. *Journal of Consulting and Clinical Psychology*, *63*, 841-847.
- Frisch, P. R., Charles, S. C., Gibbons, R. D., & **Hedeker, D.** (1995). The role of previous claims and specialty on the effectiveness of risk management education for office based physicians. *The Western Journal of Medicine*, *163*, 346-350.
- Hu, F. B., Flay, B. R., **Hedeker, D.**, Siddiqui, O., & Day, L. E. (1995). The influences of friends' and parental smoking on adolescent smoking behavior: the effects of time and prior smoking. *Journal of Applied Social Psychology*, *25*, 2018-2047.
- Hedeker, D.**, Flay, B. R., & Petraitis, J. (1996). Estimating individual influences of behavioral intentions: an application of random-effects modeling to the theory of reasoned action. *Journal of Consulting and Clinical Psychology*, *64*, 109-120.
- Conrad, K. J., Budiman-Mak, E., Roach, K. E., & **Hedeker, D.** (1996). Impacts of foot orthoses on pain and disability in rheumatoid arthritis. *Journal of Clinical Epidemiology*, *49*, 1-7.
- Hu, F. B., **Hedeker, D.**, Flay, B. R., Day, L. E., Siddiqui, O., & Sussman, S. (1996). The patterns and predictors of smokeless tobacco use among urban public school teenagers. *American Journal of Preventive Medicine*, *12*, 22-28.

- Goldman, M. B., Robertson, G. L., Luchins, D. J., & **Hedeker, D.** (1996). The influence of polydipsia on water excretion in hyponatremic, polydipsic, schizophrenic patients. *The Journal of Clinical Endocrinology and Metabolism*, *81*, 1465-1470.
- Hedeker, D.** & Gibbons, R. D. (1996). MIXOR: a computer program for mixed-effects ordinal probit and logistic regression analysis. *Computer Methods and Programs in Biomedicine*, *49*, 157-176.
- Hedeker, D.** & Gibbons, R. D. (1996). MIXREG: a computer program for mixed-effects regression analysis with autocorrelated errors. *Computer Methods and Programs in Biomedicine*, *49*, 229-252.
- Siddiqui, O., **Hedeker, D.**, Flay, B. R., Hu, F. B. (1996). Intraclass correlation estimates in a school-based smoking prevention study: outcome and mediating variables, by gender and ethnicity. *American Journal of Epidemiology*, *144*, 425-433.
- Clarke, A. S., **Hedeker, D.**, Ebert, M. H., Schmidt, D. E., McKinney, W. T., & Kraemer, G. W. (1996). Effects of rearing experience on biogenic amine activity in infant rhesus monkeys. *Biological Psychiatry*, *40*, 338-352.
- Goldman, M. B., Robertson, G. L., & **Hedeker, D.** (1996). Oropharyngeal regulation of water balance in polydipsic schizophrenics. *Clinical Endocrinology*, *44*, 31-37.
- Hedeker, D.**, & Mermelstein, R.J. (1996). Application of random-effects regression models in relapse research. *Addiction*, *91* (Supplement), S211-S229.
- Jason, L., Salina, D., **Hedeker, D.**, McMahon, S.D., & Stockton, M. (1997). A worksite smoking intervention: a 2-year assessment of groups, incentives, and self-help. *Health Education Research*, *12*, 129-138.
- Hedeker, D.**, & Gibbons, R. D. (1997). Application of random-effects pattern-mixture models for missing data in longitudinal studies. *Psychological Methods*, *2*, 64-78.
- Goldman, M. B., Robertson, G. L., Luchins, D. J., **Hedeker, D.**, & Pandey, G. N. (1997). Psychotic exacerbations and enhanced vasopressin secretion in schizophrenics with hyponatremia and polydipsia. *Archives of General Psychiatry*, *54*, 443-449.
- Altman, E. G., **Hedeker, D.**, Peterson, J. L., & Davis, J. M. (1997). The Altman self-rating mania scale (ASRM). *Biological Psychiatry*, *42*, 948-955.
- Hu, F. B., **Hedeker, D.**, Day, L. E., Flay, B. R., Siddiqui, O., Sussman, S., & Richardson, J. (1997). Patterns of use of smokeless tobacco and the unidimensional model of drug involvement. *Addictive Behaviors*, *22*, 257-261.
- Gibbons, R. D., & **Hedeker, D.** (1997). Random-effects probit and logistic regression models for three-level data. *Biometrics*, *53*, 1527-1537.
- Hu, F. B., Goldberg, J., **Hedeker, D.**, & Henderson, W. G. (1998). Modeling ordinal responses from co-twin control studies. *Statistics in Medicine*, *17*, 957-970.
- Hu, F. B., Goldberg, J., **Hedeker, D.**, Flay, B. R., & Pentz, M. A. (1998). A comparison of generalized estimating equation and random-effects approaches to analyzing binary outcomes from longitudinal studies: illustrations from a smoking prevention study. *American Journal of Epidemiology*, *147*, 694-703.

- Hedeker, D.**, & Mermelstein, R. J. (1998). A multivariate thresholds of change model for analysis of stages of change data. *Multivariate Behavioral Research*, *33*, 427-455.
- Hedeker, D.**, Gibbons, R. D., & Waternaux, C. (1999). Sample size estimation for longitudinal designs with attrition. *Journal of Educational and Behavioral Statistics*, *24*, 70-93.
- Hedeker, D.**, Mermelstein, R. J., & Weeks, K. A. (1999). The thresholds of change model: an approach to analyzing stages of change data. *Annals of Behavioral Medicine*, *21*, 61-70.
- Hedeker, D.** (1999). MIXNO: a computer program for mixed-effects nominal logistic regression. *Journal of Statistical Software*, *4*, (5):1-92.
- Gibbons, R. D., & **Hedeker, D.** (2000). Application of mixed-effects models in biostatistics. *Sankhya, Series B*, *62*, 70-103.
- Hedeker, D.**, Siddiqui, O., & Hu, F. B. (2000). Random-effects regression analysis of correlated grouped-time survival data. *Statistical Methods in Medical Research*, *9*, 161-179.
- Hedeker, D.**, & Mermelstein, R. J. (2000). Analysis of longitudinal substance use outcomes using ordinal random-effects regression models. *Addiction*, *95* (Supplement 3), S381-S394.
- Xie, H., McHugo, G., Sengupta, A., **Hedeker, D.**, & Drake, R. (2001). An application of the thresholds of change model to the analysis of mental health data. *Mental Health Services Research*, *3*, 107-114.
- Altman, E. G., **Hedeker, D.**, Peterson, J. L., & Davis, J. M. (2001). A comparative evaluation of three self-rating scales for acute mania. *Biological Psychiatry*, *50*, 468-471.
- Campbell, S.K., & **Hedeker, D.** (2001). Validity of the Test of Infant Motor Performance for discriminating among infants with varying risks for poor motor outcome. *The Journal of Pediatrics*, *139*, 546-551.
- Xu, W., & **Hedeker, D.** (2001). A random-effects mixture model for classifying treatment response in longitudinal clinical trials. *Journal of Biopharmaceutical Statistics*, *11*, 253-273.
- Hall, S.M., Delucchi, K., Velicer, W., Kahler, C., Ranger-Moore, J., **Hedeker, D.**, Tsoh, J., & Niaura, R. (2001). Statistical analysis of randomized trials in tobacco treatment. *Nicotine and Tobacco Research*, *3*, 193-202.
- Niaura, R., Spring, B., Borrelli, B., **Hedeker, D.**, Goldstein, M.G., Keuthen, N., DePue, J., Kristeller, J., Ockene, J., Prochazka, A., Chiles, J.A., & Abrams, D.B. (2002). Multicenter trial of fluoxetine as an adjunct to behavioral smoking cessation treatment. *Journal of Consulting and Clinical Psychology*, *70*, 887-896.
- Hur, K., **Hedeker, D.**, Henderson, W.G., Khuri, S., & Daley, J. (2002). Modeling clustered count data with excess zeros in health care outcomes research. *Health Services and Outcomes Research Methodology*, *3*, 5-20.
- Hedeker, D.** (2003). A mixed-effects multinomial logistic regression model. *Statistics in Medicine*, *22*, 1433-1446.
- Mermelstein, R.J., **Hedeker, D.**, & Wong, S.C. (2003). Extended phone counseling for smoking cessation: does content matter? *Journal of Consulting and Clinical Psychology*, *71*, 565-574.

- Levy, P.S., Jovanovic, B.D., & **Hedeker, D.** (2003). On post-hoc assessments of “disease cluster alarm rates.” *Journal of Probability and Statistical Science*, *1*, 1-14.
- Spring, B., Pagoto, S., Penava, S., McChargue, D., & **Hedeker, D.** (2003). Altered reward value of carbohydrate snacks for female smokers withdrawn from nicotine. *Pharmacology, Biochemistry and Behavior*, *76* 351-360.
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- Leon, A.C. & **Hedeker, D.** (under review). Propensity-based stratification for observational comparison of ordinal doses with repeated binary outcomes.
- Dalal, M.R., Pickard, A.S., Lin, S.-J., & **Hedeker, D.** (under review). Functional disability in elderly: Can longitudinal depression patterns predict differential risk of functional disability?
- Yin, H., Lin, S.-J. Muramatsu, N., Crawford, S. Y., Kong, S. X., Lambert, B. L., & **Hedeker, D.** (under review). The association between physical functioning and self-rated health in later life: The roles of aging and socioeconomic status.
- Demirtas, H., **Hedeker, D.**, & Kapur, K. (under review). A comparative study on most commonly used correlated binary data generation methods.
- Schneider, K.L. , **Hedeker, D.**, Bailey, K.C., Cook, J.W., & Spring, B. (under review). A comment on analyzing addictive behaviors over time.
- Muramatsu, N., Yin, H., & **Hedeker, D.** (under review). Functional declines, social support, and mental health in the elderly: Does living in a state supportive for home and community-based services make a difference?
- Liu, L.C., **Hedeker, D.**, Segawa, E., & Flay, B.R. (under review). Evaluation of longitudinal intervention effects: An example of latent growth mixture models for ordinal drug-use outcomes
- Hedeker, D.**, Demirtas, H. & Mermelstein, R.J. (under review). A mixed ordinal location scale model for analysis of ecological momentary assessment (EMA) data.

BOOKS:

Hedeker, D. & Gibbons, R.D. (2006). *Longitudinal Data Analysis*. New York: Wiley.

OTHER PUBLICATIONS:

Gibbons, R. D., Davis, J. M., & **Hedeker, D.** (1990). A comment on the selection of “healthy controls” for psychiatric experiments. *Archives of General Psychiatry*, 47, 785-786.

Gibbons, R. D., & **Hedeker, D.** (1991). Book review of von Eye, A. (Ed.), Statistical methods in longitudinal research, Volume 1: principles and structuring change. *Journal of the American Statistical Association*, 91, 1146-1149.

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Hedeker, D., & Gibbons, R. D. (1994). Random-effects regression models a) with autocorrelated errors and b) for ordinal outcomes. *Multilevel Modelling Newsletter*, 6, 13-15.

Levy, P. S., **Hedeker, D.**, & Sanders, P. G. (1995). Letter to the editor. *Neurology*, 45, 1631-1632.

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Hedeker, D. (1998). MIXNO: a computer program for mixed-effects nominal logistic regression. Technical Report, School of Public Health, University of Illinois at Chicago.

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- Hedeker, D.** (2004). Book review of Moskowitz, D. S. and Hershberger, S. L. (Ed.) Modeling intraindividual variability with repeated measures data: Methods and applications. *Contemporary Psychology: American Psychological Association Review of Books*, 49, 102-105.
- Hedeker, D.** (2004). An introduction to growth modeling. In D. Kaplan (Ed.), *The Sage Handbook of Quantitative Methodology for the Social Sciences* (pp. 215-234). Sage Publications, Thousand Oaks, CA.
- Hedeker, D.** (2005). Generalized linear mixed models. In B. Everitt & D. Howell (Eds.), *Encyclopedia of Statistics in Behavioral Science*. Wiley, New York.
- Hedeker, D.** , Mermelstein, R.J., & Flay, B. R. (2006). Application of item response theory models for intensive longitudinal data. In T.A. Walls & J.L. Schafer (Eds.), *Models for Intensive Longitudinal Data* (pp. 84-108). Oxford University Press, New York.
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- Hedeker, D.** & Mermelstein, R.J. (2007). Mixed-effects regression models with heterogeneous variance: analyzing ecological momentary assessment data of smoking. In T.D. Little, J.A. Bovaird, & N.A. Card (Eds.), *Modeling Contextual Effects in Longitudinal Studies* (pp. 183-206). Erlbaum, Mahwah, NJ.
- Mermelstein, R., **Hedeker, D.**, Flay, B. & Shiffman, S. (2007). Real-time data capture and adolescent cigarette smoking: Moods and smoking. In A. Stone, S. Shiffman, A. Atienza, & L. Nebeling (Eds.), *The Science of Real-Time Data Capture: Self-Report in Health Research* (pp. 117-135). Oxford University Press, New York.
- Hedeker, D.** (2008). Multilevel models for ordinal and nominal variables. In J. de Leeuw & E. Meijer (Eds.), *Handbook of Multilevel Analysis* (pp. 237-274). Springer, New York.
- Demirtas, H. & **Hedeker, D.** (2008). Comment on “Using calibration to improve rounding in imputation.” *The American Statistician*, 62, 364-365.
- Hedeker, D.** & Mermelstein R.J. (in press). Multilevel analysis of ordinal outcomes related to survival data. In J. Hox & K. Roberts (Eds.), *The Handbook of Advanced Multilevel Data Analysis*. Routledge, New York.

INVITED PRESENTATIONS & WORKSHOPS:

- (2009, March) *Half-day Preconference Workshop on Mixed Models for Longitudinal Data Analysis*. Annual Meeting of the American Psychosomatic Society, Chicago, IL.
- (2008, December) *Two-day Workshop on Mixed Models for Clustered and Longitudinal Data*. Deming Conference on Applied Statistics, Atlantic City, New Jersey.

- (2008, December) *Half-day Workshop on Mixed Models for Longitudinal Ordinal and Nominal Data*. Deming Conference on Applied Statistics, Atlantic City, New Jersey.
- (2008, October) *An Introduction to Mixed Models for Longitudinal Data*. Bipolar Statistical Summit, National Library of Medicine, Bethesda, Maryland.
- (2008, August) *One-day Workshop on Longitudinal Data Analysis: Categorical Outcomes and Missing Data*. CALDAR Summer Institute on Longitudinal Research, Los Angeles, California.
- (2008, May) *Half-day Preconference Workshop on Mixed Models for Longitudinal Data Analysis*. Annual Meeting of the Association for Psychological Science, Chicago, IL.
- (2008, May) *One-day Workshop on Mixed-effects Modeling*. Department of Psychology, DePaul University, Chicago, IL.
- (2008, May) *Mixed-Effects Models for Categorical Outcomes*. Colloquium speaker for the Department of Biostatistics, University of Kansas Medical Center, Kansas City, KS.
- (2008, February) *One and a half-day Workshop on Analysis of Multilevel and Longitudinal Data*. Department of Psychology, University of Nevada, Reno.
- (2008, January) *An Application of a Mixed-Effects Location Scale Model*. Colloquium speaker for the Department of Preventive Medicine, Feinberg School of Medicine, Northwestern University, Chicago, IL.
- (2007, December) *Two-day Workshop on Analysis of Multilevel and Longitudinal Data*. The Pittsburgh Mind-Body Center and the Center for Interdisciplinary Research on Teams, Tepper School of Business, Carnegie Mellon University, Pittsburgh, Pennsylvania.
- (2007, October) *An Application of a Mixed-Effects Location Scale Model*. Colloquium speaker for the Department of Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD.
- (2007, July) *Mixed-Effects Models for Categorical Outcomes*. Colloquium speaker for the “Key Statistical Methods for Clinical Trials” seminar series, Harvard Clinical Research Institute and Department of Health Care Policy at Harvard Medical School, Boston, MA.
- (2007, June) *One and a half-day Workshop on Mixed-effects Modeling*. Summer Institute on Longitudinal Methods, The Methodology Center, Penn State University, State College, Pennsylvania.
- (2007, May) *Half-day Preconference Workshop on Multilevel Analysis for Continuous and Categorical Data*. Annual Meeting of the Society for Prevention Research, Washington, DC.
- Hedeker, D., Mermelstein, R.J., & Demirtas, H. (2007, March) *Heterogeneous Between- and Within-Subjects Variance Models for Longitudinal Behavioral Data*. Annual Meeting of the International Biometric Society, Eastern North American Region, Atlanta, Georgia.
- (2007, February) *Modeling Effectiveness Trial Data with Missing Observations*. Annual meeting of the International Society for CNS Clinical Trials and Methodology, Washington, DC.
- (2007, January) *Half-day Workshop on Longitudinal Data Analysis*. Shire Pharmaceuticals, Wayne, PA.

- (2006, December) *Half-day Workshop on Longitudinal Data Analysis*. Deming Conference on Applied Statistics, Atlantic City, NJ.
- (2006, November) *Half-day Workshop on Longitudinal Data Analysis*. Annual meeting of the Association for Behavioral and Cognitive Therapies, Chicago.
- (2006, October) *An Introduction to Mixed Models for Categorical Outcomes*. Annual Meeting of the Milwaukee Chapter of the American Statistical Association, Milwaukee, Wisconsin.
- (2006, August) *Half-day Workshop on Longitudinal Data Analysis: Overview and Mixed Effects Models*. CALDAR Summer Institute on Longitudinal Research, Los Angeles, California.
- Hedeker, D. & Mermelstein, R.J. (2006, August) *Modeling Variation in the Effects of Smoking using Intensive Longitudinal Data*. Joint Statistical Meetings, Seattle, Washington.
- (2006, June) *One-day Workshop on Longitudinal Data Analysis*. University of California Los Angeles, Integrated Substance Abuse Programs, Los Angeles, California.
- (2005, November) *Half-day Workshop on Longitudinal Data Analysis*. Annual meeting of the Association for Behavioral and Cognitive Therapies, Washington, DC.
- (2005, November) *Mixed-Effects Models for Ordinal Data with Scaling Terms*. Colloquium speaker, Memorial Sloan-Kettering Cancer Center, New York, New York.
- (2005, June) *Half-day Workshop on Longitudinal Analysis: Growth Modeling*. Part of the Advanced Training Institute on Health Behavior Theory, sponsored by the Behavioral Research Program for the National Cancer Institute, the Society for Behavioral Medicine, and the American Psychological Association, Division 38, Madison, Wisconsin.
- (2005, April) *An Introduction to Mixed Models for Longitudinal Data Analysis*. Colloquium speaker for the Department of Mathematics and Statistics, Loyola University, Chicago.
- Hedeker, D. & Mermelstein, R.J. (2005, April) *Mixed-Effects Regression Models with Heterogeneous Variance: Analyzing Ecological Momentary Assessment (EMA) Data of Smoking*. Colloquium speaker for the Department of Psychology, Washington University, St. Louis, Missouri.
- (2005, February) *Mixed-Effects Models for Ordinal Data with Scaling Terms*. Colloquium speaker for the Division of Biostatistics, Department of Epidemiology and Public Health, Yale University School of Medicine, New Haven, Connecticut.
- (2004, December) *Two-day Workshop on Mixed Models for Multilevel and Longitudinal Data*. University of Kansas, Lawrence, Kansas.
- (2004, October) *Mixed-Effects Models for Ordinal Data with Scaling Terms*. Colloquium speaker for the Department of Biostatistics and Computational Biology, University of Rochester Medical Center, Rochester, New York.
- (2004, July) *Half-day Workshop on Longitudinal Analysis: Growth Modeling*. Part of the Advanced Training Institute on Health Behavior Theory, sponsored by the Behavioral Research Program for the National Cancer Institute, the Society for Behavioral Medicine, and the American Psychological Association, Division 38, San Diego, California.

- (2004, June) *One-day Workshop on Mixed Models for Longitudinal Data: An Applied Introduction*. Northeastern Illinois Chapter of the American Statistical Association, Northbrook, Illinois.
- Hedeker, D. & Mermelstein, R.J. (2004, March) *Mixed-Effects Regression Models with Heterogeneous Variance: Analyzing Ecological Momentary Assessment (EMA) Data of Smoking*. Conference on “Modeling Developmental Processes in Ecological Context,” sponsored by the Merrill Advanced Studies Center, the National Science Foundation, and the Society of Multivariate Experimental Psychology, Tempe, Arizona.
- (2003, September) *Mixed-Effects Models for Ordinal Data with Scaling Terms*. Colloquium speaker for the Department of Statistics, University of Illinois, Urbana-Champaign, Illinois.
- (2003, May) *An Introduction to Mixed Models for Longitudinal Data Analysis*. The Center on Outcomes, Research and Education, Evanston Northwestern Healthcare, Evanston, Illinois.
- (2003, April) *Location-Scale Models for Hierarchical Categorical Data*. Annual Meeting of the International Biometric Society, Eastern North American Region, Tampa, Florida.
- (2002, September) *Linear Regression Analysis and Beyond*. A half-day workshop sponsored by the Northeastern Chapter of the American Statistical Association for Local High School Advanced Placement Statistics Teachers, Chicago, Illinois.
- (2002, July) *Two-day Workshop on Multilevel Modeling*. The Pittsburgh Mind-Body Center, Department of Psychiatry, University of Pittsburgh, Pittsburgh, Pennsylvania.
- (2001, December) *Covariate Effects in Mixed Models for Longitudinal Categorical Outcomes*. International Conference on Health Policy Research, Boston, Massachusetts.
- (2001, December) *Multilevel Models for Categorical Outcomes*. Evening Lecture Series, Boston Chapter of the American Statistical Association, Boston, Massachusetts.
- (2001, July) *Mixed Models for Longitudinal Categorical Outcomes*. Annual Graduate Student Summer Methodology Workshop, Population Research Institute, Penn State University, State College, Pennsylvania.
- (2001, May) *One-day Preconference Workshop on Multilevel Analysis for Discrete and Time-to-Event Data in Prevention Research*. Annual Meeting of the Society for Prevention Research, Washington, DC.
- (2001, January) *One-day Preconference Workshop on Mixed Models for Longitudinal Data: An Applied Introduction*. Biennial CDC and ATSDR Symposium on Statistical Methods, Atlanta, Georgia.
- (2001, January) *Mixed-effects Modeling of Longitudinal Nominal Outcomes*. Biennial CDC and ATSDR Symposium on Statistical Methods, Atlanta, Georgia.
- (2001, January) *One-day Workshop on Longitudinal Data Analysis of Categorical Outcomes*. National Development and Research Institutes, New York, New York.
- (2000, June) *Mixed-effects Modeling of Data from Group Randomized Trials*. Annual Meeting of the Society for Prevention Research, Montreal Canada.

- (2000, May) *One and a half-day Workshop on Mixed-effects Modeling*. Summer Institute on Longitudinal Methods, The Methodology Center, Penn State University, State College, Pennsylvania.
- (2000, February) *One-day Workshop on Longitudinal Data Analysis*. National Development and Research Institutes, New York, New York.
- (1999, December) *Half-day Workshop on Multilevel Analysis*. Annual Meeting of the Maternal, Infant, and Child Health Epidemiology Workshop, Centers for Disease Control, Atlanta, Georgia.
- (1999, November) *A Multilevel Thresholds of Change Model*. Colloquium speaker for the Department of Psychology, University of Illinois, Urbana-Champaign, Illinois.
- (1999, November) *Analysis of Longitudinal Mental Health Data*. Colloquium speaker for the Missouri Institute of Mental Health, St. Louis, Missouri.
- (1999, November) *Mixed-Effects Models for Longitudinal Categorical Data*. Colloquium speaker for the Department of Health Studies, University of Chicago, Chicago, Illinois.
- (1999, November) *Mixed-Effects Models for Longitudinal Categorical Data*. Colloquium speaker for Biostatistics Interest Group, Rush Presbyterian St. Lukes Medical Center, Chicago, Illinois.
- (1999, October) *Mixed-Effects Models for Longitudinal Categorical Data*. Colloquium speaker for the Center for Statistical Sciences, Brown University, Providence, Rhode Island.
- (1999, May) *Reveling in Multilevel Models: An Applied Introduction*. “Multilevel Mayhem” conference, sponsored by the Chicago Chapter of the American Statistical Association, Chicago, Illinois.
- (1999, April) *Analysis of Longitudinal Alcohol and Smoking Outcomes*. Conference on the State-of-the-Art Methodologies in Health Services Research, National Institute on Alcohol Abuse and Alcoholism, Rockville, Maryland.
- (1998, November) *Multilevel Analysis of Ordinal Outcomes*. Colloquium speaker for the Department of Epidemiology, College of Human Medicine, Michigan State University, East Lansing, Michigan.
- (1998, October) *Missing Data in Longitudinal Studies*. Workgroup and Interviewers Meeting, Center for Substance Abuse Treatment, Division of Practice and Systems Development, Systems Development and Integration Branch, New Orleans, Louisiana
- (1998, July) *Two-day Workshop on Hierarchical Linear Modeling*. Kennedy Center Summer Research Design and Data Analysis Seminar, Vanderbilt University, Nashville, Tennessee.
- (1998, May) *Random-effects Regression Analysis of Correlated Group-Time Survival Data and Application of Random-effects Pattern-Mixture Models for Missing Data*. John Hopkins University Prevention Research Conference on Integrating Statistical Methods with Prevention Research and Programs, Baltimore, Maryland.
- (1998, May) *Two-day Workshop on Longitudinal Data Analysis*. Psychiatric Research Center, Dartmouth College, Lebanon, New Hampshire.

- (1998, April) *Half-day Workshop on Mixed-effects Modeling*. School of Social Service Administration, University of Chicago, Chicago, Illinois.
- (1997, May) *A Generalized Mixed Effects Ordinal Regression Model*. Colloquium speaker for the Department of Preventive Medicine, University of Iowa, Iowa City, Iowa.
- (1997, April) *Multilevel Analysis of Categorical Outcomes*. One-day course, as part of the Amsterdam Conference on Multilevel Analysis, Amsterdam, The Netherlands.
- (1997, April) *A Partial Proportional Odds Model for Multilevel Ordinal Responses*. Amsterdam Conference on Multilevel Analysis, Amsterdam, The Netherlands.
- (1997, January) *A Generalized Mixed Effects Ordinal Regression Model*. Colloquium speaker for the Department of Biostatistics, School of Public Health, University of Michigan, Ann Arbor, MI.
- (1997, January) *Application of Random-Effects Pattern-Mixture Models for Missing Data in Longitudinal Studies*. Colloquium speaker for The Methodology Center and The Center for the Study of Prevention Through Innovative Methodology, Penn State University, University Park, PA.
- (1997, January) *A Generalized Mixed Effects Ordinal Regression Model*. Colloquium speaker for the Department of Statistics, Penn State University, University Park, PA.
- (1997, January) *Multilevel Models: An Applied Introduction*. Monthly meeting of the Chicago Chapter of the American Statistical Association, Chicago, IL.
- (1996, July) *Two-day Workshop on Longitudinal Data Analysis*. Homeless Research Project, San Diego State University, San Diego, California.
- (1996, April) *Random Effects Models in Longitudinal Data with Ordinal Outcomes*. Annual Conference sponsored by The Delaware Chapter of the American Statistical Association, University of Delaware, Newark, DE.
- (1996, January) *Two-day Workshop on Longitudinal Data Analysis*. Medical University of South Carolina, Charleston, SC.
- (1995, November) *One-day Workshop on Longitudinal Data Analysis*. Medical University of South Carolina, Charleston, SC.
- (1995, October) *Invited Speaker for Two-day Workshop on Data Analysis Issues*. Centers for Disease Control, Division of Adolescent and School Health, Atlanta, GA.
- (1995, September) *Random-effects models for ordinal and dichotomous response data*. Speaker for the One-day Workshop “Missing Data in the Social Sciences,” jointly sponsored by the Departments of Statistics and Operations Research, Psychology, Sociology, and Teaching and Learning, New York University, New York, NY.
- (1995, August) *Two-day Workshop on Longitudinal Data Analysis*. Sponsored by The National Association of State Mental Health Program Directors Research Institute, Inc. in collaboration with Mental Health Policy Workgroup, John F. Kennedy School of Government, Harvard University, Boston, MA.

- (1995, May) *One-day Workshop on Longitudinal Data Analysis*. Schizophrenic Disorders Program, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, GA.
- (1995, May) *One-day Workshop on Longitudinal Data Analysis*. Department of Medical Affairs, Medical Center, West Haven, CT.
- (1995, April) *Panelist, Two-day Workshop on New Directions in Psychosocial Intervention Research in Geriatric Mental Health*. Cosponsored by the NIMH Mental Disorders of the Aging Research Branch and the MacArthur Foundation Research Network for Psychopathology and Development, Washington, D.C.
- (1994, December) *Half-day Workshop on Longitudinal Data Analysis*. Psychiatric Research Center, Dartmouth College, Lebanon, NH.
- (1994, October) *Half-day Workshop on Longitudinal Data Analysis*. National Association of State Mental Health Program Directors Research Fellows' Meeting, Grand Lake, CO.
- (1994, May) *One-day Workshop on Longitudinal Data Analysis*. State of Connecticut Department of Mental Health Research Division, Middletown, CT.
- (1994, July) *Statistical Approaches to Longitudinal Analysis of Psychiatric Data*. Presentation and workshop, University of Limburg, Maastricht, The Netherlands.
- (1993, October) *Longitudinal Analysis of Mental Health Data: Some Recent Statistical Advances*. National Conference on State Mental Health Agency Services Research and Program Evaluation. Annapolis, MD.
- (1993, June) *Multilevel Regression Models*. International Meeting of the Society for Psychotherapy Research, Pittsburgh, PA.
- (1993, March) *One-day Workshop on Multilevel Data Analysis*. Center for Urban Affairs and Policy Research, Northwestern University.
- (1993, March) *One-day Workshop on Multilevel Data Analysis*. Department of Psychology, Memphis State University.
- (1993, February) *Multilevel Analysis of Ordinal Data*. Centers for Disease Control and Prevention Annual Conference for National Prevention Centers, Tucson, AZ.
- (1993, January) *Multilevel Analysis using Random-effects Models: Applications to Relapse Research*. National Institute on Alcohol Abuse and Alcoholism Division of Clinical and Prevention Research Treatment Research Branch, Methodologies for Relapse Research Workshop, Santa Fe, NM.
- (1992, September) *Uses of Random Regression Models in Psychiatry*. MacArthur Foundation Research Network on the Psychobiology of Depression and Other Affective Disorders: Random Regression Workshop, Chicago, IL.
- (1991, November) *Random Regression Models for Clustered Data*. National Institute of Mental Health and American Public Health Association Continuing Education Institute, Atlanta, GA.

CONTRIBUTED PRESENTATIONS AND POSTERS:

- Hedeker, D., Mermelstein, R., & Flay, B. (2008, September). *Application of item response theory models for intensive longitudinal data*. Annual Meeting of the International Conference on Outcomes Measurement. Bethesda, Maryland.
- Hedeker, D. (2008, August). *Joint modeling of a longitudinal outcome and early study discontinuation*. Annual Meeting of the American Statistical Association. Denver, Colorado.
- Mermelstein, R., Hedeker, D., & Witkiewitz, K. (2007, February). Adolescents who want to smoke, but can't: situational and mood contexts. Poster, Annual Meeting of the Society for Research on Nicotine and Tobacco, Austin, TX.
- Spring, B., Maloney, A., Appelhans, B., Vaughn, J., Vanderveen, J. & Hedeker, D. (2007, February). Smoking a de-nicotinized cigarette blunts emotional response to positive mood induction by previously depressed smokers. Annual Meeting of the Society for Research on Nicotine and Tobacco, Austin, TX.
- Demirtas, H., & Hedeker, D. (2006, March). *An Imputation Strategy for Binary Data*. Annual Meeting of the International Biometric Society, Eastern North American Region, Tampa, Florida.
- Mermelstein, R., Hedeker, D., Flay, B.R., & Shiffman, S. (2004, May). *The development of nicotine dependence: Understanding the contributors of patterns of behavior*. Annual Meeting of the Society for Prevention Research, Montreal, Quebec.
- Hedeker, D. (2004, March). *A Latent Class Regression Model for Longitudinal Ordinal Outcomes*. Annual Meeting of the International Biometric Society, Eastern North American Region, Pittsburgh, Pennsylvania.
- Liu, L.C., & Hedeker, D. (2004, March). *A Mixed-Effects Regression Model for Longitudinal Multivariate Ordinal Data*. Annual Meeting of the International Biometric Society, Eastern North American Region, Pittsburgh, Pennsylvania.
- Leon, A.C., Hedeker, D., & Teres, J. (2004, March). *A Mixed-Effect Propensity Adjustment for Treatment Effectiveness Analyses of Ordinal Doses*. Annual Meeting of the International Biometric Society, Eastern North American Region, Pittsburgh, Pennsylvania.
- Spring, B., Schneider, K., Pagoto, S., Smith, M., Corsica, J., & Hedeker, D. (2004, March). *Abuse potential of carbohydrate snacks for overweight carbohydrate cravers*. Annual Meeting of the Society for Behavioral Medicine, Baltimore, MD.
- Spring, B., Werth, J., Schneider, K., Pagoto, S., Bailey, K., Doran, N. & Hedeker, D. (2004, March). *Progressing Towards Evidence-Based Behavioral Medicine*. Annual Meeting of the Society for Behavioral Medicine, Baltimore, MD.
- Mermelstein, R., Hedeker, D., Flay, B.R., & Shiffman, S. (2003, March). *Trajectories and predictors of adolescent smoking*. Annual Meeting of the Society for Behavioral Medicine, Salt Lake City, Utah.

- Mermelstein, R., Hedeker, D., Flay, B.R., & Shiffman, S. (2003, February). *Do changes in mood following smoking predict longitudinal changes in adolescent smoking patterns*. Annual Meeting of the Society for Research on Nicotine and Tobacco, New Orleans, Louisiana.
- Spring, B., Doran, N., Pagoto, S., Schneider, K., Pingitore, R., & Hedeker, D. (2003, February). *Conjoint Behavior Change Intervention for Smoking and Weight Control: Effects on Smoking Cessation and Weight*. Annual Meeting of the Society for Research on Nicotine and Tobacco, New Orleans, Louisiana.
- Hedeker, D. (2001, June). *Comparing Ordinal and Nominal Mixed-effects Regression Models for Longitudinal Data*. Annual Meeting of the Psychometric Society, Valley Forge, PA.
- Hedeker, D. (2001, March). *Mixed-effects Multinomial Regression Models for Ordinal Data*. Annual Meeting of the International Biometric Society, Eastern North American Region, Charlotte, North Carolina.
- Raman, R., & Hedeker, D. (2001, March). *Random-effects Regression Models for Three-level Ordinal Data*. Annual Meeting of the International Biometric Society, Eastern North American Region, Charlotte, North Carolina.
- Hedeker, D. (2000, August). *A Fully Semi-Parametric Mixed-effects Regression Model for Categorical Responses*. Annual Meeting of the American Statistical Association. Indianapolis, Indiana.
- Hedeker, D. (2000, March). *A Semi-Parametric Mixed-effects Regression Model*. Annual Meeting of the International Biometric Society, Eastern North American Region, Chicago, Illinois.
- Hur, K., & Hedeker, D. (2000, March). *A Random-effects Zero-inflated Poisson Regression Model for Clustered Extra-zero Count Data*. Annual Meeting of the International Biometric Society, Eastern North American Region, Chicago, Illinois.
- Hedeker, D. (1999, November). *Multilevel Models for Longitudinal Categorical Data*. Annual Meeting of the American Public Health Association. Chicago, Illinois.
- Hedeker, D. (1999, August). *Mixed-Effects Models for Longitudinal Categorical Data*. Annual Meeting of the American Statistical Association. Baltimore, Maryland.
- Hedeker, D. (1999, July). *MIXOR: A Software Program for Mixed-Effects Ordinal Regression*. Annual Meeting of the European Psychometric Society, Lueneburg, Germany.
- Flay, B.R., Campbell, R., Colder, C., Mehta, P., Anderson, T., Ruel, E., Hedeker, D., & Richardson, J. (1999, June). *Etiology of adolescent substance use: Statistical and theoretical advancements from secondary analysis of longitudinal data*. Annual Meeting of the Society for Prevention Research, New Orleans, Louisiana.
- Hedeker, D. (1998, June). *A Multilevel Thresholds of Change Model for Analysis of Stages of Change Data*. Annual Meeting of the Society for Prevention Research, Park City, Utah.
- Hedeker, D. (1998, March). *A Mixed Effects Multinomial Regression Model*. Annual Meeting of the International Biometric Society, Eastern North American Region, Pittsburgh, Pennsylvania.

- Hedeker, D. (1997, November). *Multilevel Analysis of Ordinal Data*. Annual Meeting of the American Public Health Association, Indianapolis, Indiana.
- Hedeker, D., Mermelstein, R.J., & Weeks, K. (1997, April). *The Thresholds of Change Model: An Approach to Analyzing Stages of Change Data*. Annual Meeting of the Society of Behavioral Medicine, San Francisco, California.
- Hedeker, D. (1997, March). *A Mixed Effects Partial Proportional Odds Model*. Annual Meeting of the International Biometric Society, Eastern North American Region, Memphis, Tennessee.
- Hu, F.B., Hedeker, D., & Flay, B.R. (1996, November). *Assessing missing data mechanisms in longitudinal studies with binary responses*. Annual Meeting of the American Public Health Association, New York, New York.
- Hedeker, D., Siddiqui, O., Campbell, R.T., & Flay, B.R. (1996, August). *A Random-effects Model for Correlated Discrete-Time Survival Data*. Annual Meeting of the American Statistical Association, Chicago, Illinois.
- Hu, F.B., Hedeker, D., Siddiqui, O., & Flay, B.R. (1996, August). *Application fo random-effects pattern-mixture models in analyzing incomplete binary outcomes in longitudinal studies*. Annual Meeting of the American Statistical Association, Chicago, Illinois.
- Siddiqui, O., & Hedeker, D., (1996, August). *Poisson random-effects regression models for clustered count data with an application*. Annual Meeting of the American Statistical Association, Chicago, Illinois.
- Hu, F.B., Goldberg, J., Hedeker, D., & Flay, B.R. (1996, June). *Modeling missing binary outcomes in longitudinal studies: incorporating pattern-mixture models into random-effects logistic regression*. Annual Meeting of the Society for Epidemiologic Research, Boston, Massachusetts.
- Hedeker, D., Siddiqui, O., Campbell, R.T., & Flay, B.R. (1996, March). *Random-effects Regression for Discrete-Time Survival Data*. Annual Meeting of the International Biometric Society, Richmond, Virginia.
- Day, L.E., Hu, F.B., Flay, B.R., Hedeker, D., Siddiqui, O., & Sussman, S. (1994, November). *Changes in the influence of parents and friends at different stages of cigarette smoking during adolescence*. Annual Meeting of the American Society of Criminology, Miami, Florida.
- Hedeker, D., & Gibbons, R.D. (1994, August). *A Random-effects Ordinal Regression Model*. Annual Meeting of the American Statistical Association, Toronto, Canada.
- Hedeker, D. (1992, July). *A Random-effects Ordinal Probit Model for Multilevel Analysis*. Annual Meeting of the Psychometric Society, Columbus, OH.
- Hedeker, D. (1990, June). *Applications of Random Regression Models in Psychiatric Research*. Annual Meeting of the Psychometric Society, Princeton, NJ.
- Hedeker, D., Gibbons, R.D., & Davis, J.M. (1990, May). *Random Regression Models for Multi-Center Clinical Trials data*. Poster presented at the Annual Meeting of the New Clinical Drug Evaluation Unit, Key Biscayne, FL.

Hedeker, D. (1989, June). *Multilevel Linear Models with Autocorrelated Errors*. Annual Meeting of the Psychometric Society, Los Angeles, CA.

Hedeker, D., Gibbons, R.D., & Waternaux, C. (1988, June). *Random Regression Models for Longitudinal Psychiatric Data*. Annual Meeting of the Psychometric Society, Los Angeles, CA.

Hedeker, D., Gibbons, R.D., Waternaux, C., & Davis, J.M. (1988, May). *Investigating Drug Plasma levels and Clinical Response using Random Regression Models*. Poster presented at the Annual Meeting of the New Clinical Drug Evaluation Unit, Key Biscayne, FL.

REVIEW ACTIVITIES:

- Member, Interventions Research Review Committee, National Institute of Mental Health, 1999-2003.
- Member, Clinical Centers and Special Projects Review Committee, National Institute of Mental Health, 1997-1998.
- Ad-hoc Grant Reviewer for National Heart, Lung, and Blood Institute, 1990-1997.
- Ad-hoc Grant Reviewer for National Institute of Mental Health, 1996, 1999, 2003-2005.
- Grant Reviewer for The Dutch Social Science Research Council of the Netherlands Organisation for Scientific Research, 2003.
- Grant Reviewer for the Research Council of the Katholieke Universiteit Leuven, 2004.
- Grant Reviewer for The Wellcome Trust, United Kingdom, 1997.
- Member, University Scholars Review Committee, University of Illinois at Chicago, 2002.
- Panel Member, National Institutes of Health Consensus Development Conference on Effective Medical Treatment of Heroin Addiction, November 1997.
- Member, Scientific Advisory Committee, Healthy Passages: A Community-based Longitudinal Study of Adolescent Health, Centers for Disease Control, 2002.
- Member, External Study Group, Community Intervention Trial for Youth, Centers for Disease Control, 2000-2003.
- Member, Data and Safety Monitoring Board, Improving Functioning in Peripheral Arterial Disease, Northwestern University, 2004 to 2008.
- Member, Data and Safety Monitoring Board, Chicago Initiative to Raise Asthma Health Equity, Northwestern University, 2003 to 2008.
- Member, Data and Safety Monitoring Board, A Randomized Clinical Trial of Cognitive-Behavioral Treatment for PTSD in Women, Department of Veteran Affairs, 2002 to 2005.
- Member, Data and Safety Monitoring Board, Increasing Activity in Peripheral Arterial Disease, Northwestern University, 2008 to present.

- Member, Data and Safety Monitoring Board, Risperidone Treatment for Military Service Related Chronic Post Traumatic Stress Disorder, Department of Veteran Affairs, 2007 to present.
- Member, Expert Panel, National Survey of Knowledge, Attitudes and Beliefs Regarding the Anthrax Vaccine Among Military Personnel, Centers for Disease Control, 2001-2002.
- Member, External Advisory Committee, San Francisco Treatment Research Center, Department of Psychiatry, University of California, San Francisco, 2005.
- Member, External Advisory Committee, The Methodology Center, Institute for Social Research, University of Michigan, Ann Arbor, 2006.
- Member, Scientific Advisory Board, INTRuST: Clinical Consortium in Posttraumatic Stress Disorder (PTSD) and Traumatic Brain Injury (TBI), University of California San Diego, 2009 to present.
- Associate Editor, Journal of Educational and Behavioral Statistics, 1994 to 2001.
- Associate Editor, Statistics in Medicine, 2006 to present.
- Associate Editor, Journal of Statistical Software, 2006 to present.
- Consulting Editor for Statistics, Bipolar Disorders, 1998 to present.
- Manuscript and/or Book Reviewer:
 - Addiction, American Journal of Medical Genetics, American Journal of Psychiatry, Applied Statistics, Archives of General Psychiatry, Biometrics, Biostatistics, Bipolar Disorders, British Journal of Mathematical and Statistical Psychology, Communications in Statistics, Computational Statistics and Data Analysis, Drug and Alcohol Dependence, Evaluation Review, Health Psychology, Health Services and Outcomes Research Methodology, Journal of Abnormal Psychology, Journal of the American Statistical Association, Journal of Classification, Journal of Consulting and Clinical Psychology, Journal of Educational and Behavioral Statistics, Journal of Family Psychology, Journal of the Royal Statistical Society, Journal of Statistical Computation and Simulation, Journal of Statistical Software, Multivariate Behavioral Research, Nicotine and Tobacco Research, Psychological Bulletin, Psychological Methods, Psychometrika, Statistical Methods in Medical Research, Statistical Modelling, Statistics in Medicine, Survey Methodology, Tobacco Control, Trials.

PROFESSIONAL AFFILIATIONS AND SERVICE:

- American Statistical Association
- American Statistical Association, Development Committee Member, 2007-present
- American Statistical Association, Chicago Chapter, Vice President for Luncheons, 1998-99
- American Statistical Association, Chicago Chapter, Vice President for Conferences, 1997-98
- International Biometric Society

- International Biometric Society, Program Committee Member for 2005 Meeting of the Eastern North American Region (ENAR)
- Psychometric Society