

CURRICULUM VITAE

A. Personal Information:

Name **David Peter MacKinnon, Ph.D.**

Business Address Department of Psychology
Arizona State University
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B. Education

High School Dedham High School, Dedham, Massachusetts, 1975

University Harvard University, B.A., 1979, Psychology and Social Relations

Graduate University of California, Los Angeles, M.A., 1982,
Ph.D., 1986, Measurement and Psychometrics
Dissertation: Measurement of Human Memory Storage Using Statistical
Models of Multiple Recall Performance

C. Professional Background

Professor (2000 - Present)
Associate Professor (1994 - 2000)
Assistant Professor (1990 - 1994)

Department of Psychology
Arizona State University
Tempe, Arizona 85287-1104

Assistant Professor of Research (1986 -1990)
Department of Preventive Medicine
Institute for Health Promotion and Disease Prevention
School of Medicine
University of Southern California
35 North Lake Avenue, Suite 200
Pasadena, California 91101-1856

Research Assistantships
Department of Psychology, University of California, Los Angeles, 1980-1986
Department of Engineering and Applied Sciences, University of California, Los Angeles,
1981, 1985
Department of Neuroscience, University of California, Los Angeles, 1984-1985

Teaching Assistantships
Department of Psychology, University of California, Los Angeles, 1985

Statistician
Brentwood Veterans Administration Hospital, Brentwood, California, 1981

Professional ice hockey player/coach

Futbol Club Barcelona, Barcelona, Spain, 1979-80

Child Development Counselor
May Institute for Autistic Children, Chatham, Massachusetts, 1979

Cabin Counselor
Wediko (Camp for disturbed children) Hillsboro, New Hampshire, 1978

D. Society Memberships:

Local

Western Psychological Association
Arizona Human Factors Society

National

American Association for the Advancement of Science
American Psychological Association
American Public Health Association
American Statistical Association
Human Factors & Ergonomics Society
Psychometric Society
Sigma XI
Research Society on Alcoholism
Society for Prevention Research
Western Psychological Association

E. Grants Funded

1. (Principal Investigator) Effects of alcohol labeling legislation on adolescents. National Institute on Alcoholism and Alcohol Abuse. (\$986,908 Direct Costs. Funded March 1, 1990).
2. (Principal Investigator of subcontract) Parenting skills, alcohol and drug abuse prevention-Satellite. National Institute on Alcoholism and Alcohol Abuse (September, 1989 - August 1990).
3. (Principal Investigator) Measurement of mediation in prevention studies. National Institute on Drug Abuse. (\$49,019 Direct Costs. Funded September 1, 1990).
4. (Co-Principal Investigator) Comprehensive community drug abuse prevention through adolescence and early adulthood. National Institute on Drug Abuse. (\$4,036,912 Direct Costs. Funded December, 1, 1990).
5. (Training Faculty) Research training in child mental health/primary prevention. National Institute of Mental Health (\$110,291 Direct Costs. Funded August 1, 1990).
6. (Principal Investigator) City-level alcohol related problems and availability database. National Institute on Alcohol Abuse and Alcoholism (\$49,916 Direct Costs. Funded June 1, 1991).
7. (Co-Principal Investigator) School-Based Steroid Prevention Project. National Institute on Drug Abuse. Oregon Health and Science University. P.I. Linn Goldberg, M.D. (\$90,109 Direct Costs. Funded July 1, 1993).

8. (Principal Investigator) Estimating Mediation Effects in Prevention Studies. National Institute on Drug Abuse. (\$503,495 Direct Costs. Funded July 1, 1996).
9. (Principal Investigator) Effects of Alcohol Labeling Legislation on Adolescents. National Institute on Alcoholism and Alcohol Abuse. Competing Continuation grant. (\$280,000 Direct Costs. Funded October 1996).
10. (Co-Principal Investigator) Student Athlete Drug Surveillance Trial. National Institute on Drug Abuse. Oregon Health and Science University. P.I. Linn Goldberg, M.D. (\$417,231 Direct Costs. Funded August 5, 1999).
11. (Principal Investigator) Analysis of Team-Based Substance Abuse Prevention. Competing continuation proposal. National Institute on Drug Abuse, (\$500,000 Direct Costs. Funded August 20, 2000).
12. (Co-Investigator) Stress and Adaptation to Rheumatoid Arthritis. Proposal for NIH. P. I. Alex J. Zautra at Arizona State University. (\$308,677 Direct Costs. Funded June 5, 2000).
13. (Training Faculty) Center for the Prevention of Child and Family Stress (Renewal). National Institute for Mental Health. (\$5,307,437 Direct Costs. Funded February 1, 2000).
14. (Principal Investigator) Secondary Analysis of School-Based Prevention of Adolescent Driving Under the Influence (New). National Institute on Alcohol Abuse and Alcoholism. (\$300,000 Direct Costs. Funded March 1, 2002).
15. (Principal Investigator) Estimating Mediation Effects in Prevention Studies (Competing Continuation). National Institute on Drug Abuse. (\$600,000 Direct Costs. Funded on August 5, 2003).

Proposals Under Review

1. (Co-Investigator) OPHICER (Officers' Program for Health Improvement by Changing Elevated Risks). National Institute on Drug Abuse. Oregon Health and Science University

F. Research Activities:

Complete Bibliography Appended

G. Teaching Experience

1. Graduate, Department of Preventive Medicine, Methodology segment in "Foundations of Health Behavior Research".
2. Graduate, Department of Psychology, "Statistical Methods in Prevention Research".
3. Graduate, Department of Psychology, "Advanced Experimental Design and Analysis".
4. Undergraduate, Department of Psychology, "Introduction to Statistics".

5. Undergraduate, Department of Psychology, "Second Course in Statistical Methods".

Dissertation Committees

- Carlos Alatorre (Business), A comparison of some goodness-of-fit tests for large sparse multinomial distributions (August 1996)
- Renee Bator, Effective Public Service Announcements: Linking social norms to visual memory cues (July 1997)
- Janice Blair-MacNeil, Evaluation of cognitive processes influencing sexual risk taking in college students (August 1997)
- Angela Bryan, Psychosocial and contextual determinants of condom use among incarcerated adolescents (January 1997)
- Lori Burrue-Homa, Contingency, performance factors, and the illusion of control (May 1997)
- Carolyn Cavanaugh, Food intake variables associated with childhood obesity: The role of intake timing (August 1996)
- JeeWon Cheong, Mediating mechanisms to reduce adolescent DUI in a drug prevention program: Mediation analysis using latent growth curve modeling (August 2002)
- Patrick Curran, The robustness of confirmatory factor analysis to model mis-specification and violations of normality (May 1994)
- Christian DeLucia, Individual differences in growth in drug use (December 2003)
- Stephanie DeLusé, Mandatory divorce education: A program evaluation using a "Quasi-random" regression discontinuity design (May 1999)
- Andrea Fenaughty, Alcohol, sexual arousal, and risky sexual decisions (August 1993)
- John Finch, (Co-Chair) Structural Equation Models with non-normal variables: problems and remedies (August 1992)
- Jennifer Fisher, (Co-Chair) Gender issues with condom use self-efficacy beliefs (August 1995)
- Lee Hancock, A goal setting intervention to increase physical activity in elementary school children (current)
- Kathleen Nelson Hipke, The mediating role of social support between psychological factors and father's parenting qualities (May 2002)
- Jeanne Hoffman, (Chair), Methods to compare correlations: A simulation study and application to an anabolic steroid prevention project (August 2000)
- Jennifer Krull, The effects of mis-specification resulting from analysis decisions in multilevel models (May 1998)
- Oi-Man Kwok, The impact of misspecifying the within-subject covariance structure in multiwave longitudinal multi-level models: a Monte Carlo study (December 2004)
- Brian Lewis, The effects of pain on social cognitive processing as mediated by attentional and physiological mechanisms (August 1996)
- Chondra Lockwood (Chair), Gender differences in response to social aggression (Current)
- Janelle Lutzke, Multiple mediation of the effects of interparental conflict on children's post-divorce symptomatology (August 1997)
- Michael MacLean, (Chair) Differentiating between problem and non-problem drinking adolescents (December 1995)
- Michael P. Marshal, The effects of parent divorce on adolescent substance use and young adult substance use disorders (December 2002)
- Ray Merrill (Business), Treatment effect evaluation in nonadditive mediation models (May 1994)
- Antonio A. Morgan-Lopez (Chair) A simulation study of the mediated baseline by treatment interaction effect in preventive intervention trials (December 2003)
- Sean Mulvenon (Education), Analytic formulae for power analysis in repeated measures designs (August 1993)
- Liva Nohre, (Chair) The effects of false alarms on driving behavior (August, 2001)
- Melanie Page-Smith, (Co-Chair) Survival analysis in Psychology: Effects of censoring and proportionality (August 1998)

Steven Pitts, The use of latent growth models to estimate treatment effects in longitudinal experiments (August 1999)

David Prybeck, Body dissatisfaction as a predictor of eating behaviors, exercise, and anabolic steroid use among males (August 1999)

Brad Sagarin, Avoiding threats to the vulnerable self: The motivations and mechanisms of resistance to persuasion (June 1999)

Sarah Schmiege, A theoretical intervention to increase calcium intake in young women as an osteoporosis protective behavior (Current)

Bruce W. Smith, Vulnerability and resilience as predictors of pain, affect, and the pain-affect relationship in rheumatoid arthritis and osteoarthritis patients (May 2002)

Eric Stice, The differential prediction of adolescent substance use and problem use (May 1996)

Marcia P. Tabora (Chair) Toward a physical activity intervention model: synthesizing theoretical and applied research (December 2003)

Michael Todd, (Co-Chair) Stress and smoking: Effects of daily stress, nicotine dependence, and gender (May 2001)

Tinna Traustadottir, Does Fitness attenuate the effects of aging on the hypothalamic-pituitary-adrenal axis in women? (May 2003)

Elizabeth Twamley, Moderators of eating pathology (January 2000)

Lynn Virdin, A test of the robustness of estimators that model selection in the nonequivalent control group design (December 1993)

Ghulam Warsi (Business), Topics in mediation and confounding (May 1998)

Jennifer Weller, An affect-regulation model of alcohol consumption: Replication and extension of Cooper's model (December 1999)

Jason Williams (Chair) Resampling and distribution of products methods for testing indirect effects in complex models (December 2004)

Rhonda Williams-Avery, Cognitive mechanisms linking disclosure, inhibition and self-reported health (May 1999)

Masters Committees

Angela Bryan, Increasing condom use in sexually active college students: An intervention with women (December 1994)

Derek Burkeman, A study of the influence of maternal demoralization on child mental health (August 1992)

Jonathan Cohen, Does empathy moderate the relation between interparental conflict and child symptomatology? (May 1999)

Spring R. Dawson, The relations of positive and negative appraisal biases to competence and pathology in children of divorce (April 2000)

Christian Delucia, Fluctuations over time in paternal alcohol impairment and child symptomatology (December 1998)

Matthew Fritz (Chair), Required sample size to detect the mediated effect (05/2005)

Rachel Haine, Individual and social-environmental predictors of parentally bereaved children's hiding of negative emotions (May 1999)

Jeanne Hoffman, Interpersonal stress, mood, immune function, and disease activity in rheumatoid arthritis patients (December 1995)

Lauren Kim, Coping and negative appraisal as mediators between locus of control and psychological symptoms (December 1995)

Angela Lapin, Women's decision making about hormone replacement therapy (December 1997)

Chondra Lockwood (Chair), The power to detect mediated effects: The effects of nonnormality (May 2000)

Antonio A. Morgan-Lopez, A mediated moderation model of cigarette use among Mexican-American youth: The multiplicative effects of environmental risk and cultural identification (August 2000)

Liva Nohre, Memory for traumatic events (May 1994)

Benah Parker, Including gender in the shifting multi-cultural lens or the self (December 2001)

Petia Petrova, Imagery-inviting appeals can enhance or undermine persuasion: The role of vividness of the message, ease of imagining, & emotions (December 2001)
Steve Pitts, The utility of extreme groups analysis to detect interactions in the presence of correlated predictor variables (April 1997)
Philip Potter, Stressful events' effects on rheumatoid arthritis disease activity: A case study (December 1995)
RaeJean Proescholdbell, The relation between adolescent smoking and home smoking policy (December 1998)
Ehri Ryu, The effect of small group size on the estimation of multilevel models (Current)
Gary Robinson (Business), Simulation study of multiple mediated effects (May 1996)
Marcia Taborga, (Chair), Effect size in mediation models (May, 2000)
Aaron Taylor, A comparison of ordinary least squares regression to ordinal logistic and ordinal probit regression in the case of a coarsely categorized outcome variable (August 2004)
Elizabeth Twamley, Moderators of eating pathology (August 1997)
Amy Wilcox (Speech and Hearing), Phonological training in very young children (May 1999)
Rhonda Williams-Avery (Chair), Psychosocial predictors of protective gear use among in-line skaters: A comparison of three theoretical models (December 1995)
Myeongsun Yoon, Detecting violations of factorial invariance using data-based specification searches: A Monty Carlo study (December 2004)
Felicia Zani, Beyond femininity: Test of a mediational model linking gender role phenomena and eating disturbance (May 1999)

Undergraduate Honors Students

Jason Adams, The effects of repeated warnings (1995)
Brian Curtis, The intraclass correlation (R) versus Pearson's product moment correlation (r) in test-retest reliability (1998)
Roxane Forsythe, The effects of warnings on gambling behavior (1996)
Brooke C. Radford, Academic procrastination in the context of social temptation and different time periods (2002)

Comprehensive Exam Committees

Renee Bator, Angela Bryan, JeeWon Cheong (Chair), Caroline Davis, Christian DeLucia, Andrea Fenaughty, Jennifer Fisher, Jennifer Krull, Chondra Lockwood (Chair), Janice McNiel, Antonio Morgan-Lopez, Sean Mulvenon (Education), Petia Petrova, David Prybock, Jennifer Ritter, Khelton Rhodes, Marcia Taborga (Chair), Aaron Taylor, Mike Todd (Chair), Elizabeth Twamley, Lynn Virdin, Jason Williams, Carla Zubiria

H. Consultantships and Professional Service

Consultantships

Development and Evaluation of Cognitive Interview Techniques for Use with Children (R.E. Geiselman, Principal Investigator). National Institute of Justice.

Cognitive Questioning of Child Witnesses in the Courts. (R.E. Geiselman, Principal Investigator). State Justice Institute.

Behavioral Sciences Consultant. (D. Cohen, Principal Investigator). Los Angeles County Public Health Programs.

Member of Executive Council. (Cynthia Emmetts, Director). Project TEAM, Teaching Effective Alcohol Management, Public Health Foundation.

Member of Arizona Substance Abuse Survey Advisory Group. (R. Holgerson, Director). Arizona Criminal Justice Commission.

Effective School Based Substance Abuse Prevention. (W.B. Hansen, Principal Investigator). National Institute on Drug Abuse.

Missing Value Imputation in Alcohol Prevention Database. (J. Graham, Principal Investigator). National Institute on Alcoholism and Alcohol Abuse.

Phoenix Community Partnership (L. Knight Principal Investigator) Center for Substance Abuse Prevention.

Tucson Full Court Press project (H. -R. Lee Principal Investigator) Robert Wood Johnson Foundation (Current).

Media Effects on Adolescent Alcohol Use (A. Stacy Principal Investigator) National Institute on Alcoholism and Alcohol Abuse (Current).

Tobacco Use in Rural Areas (J. Davis Principal Investigator) National Cancer Institute (Current).

Prevention Science and Methodology Group (C. Hendricks Brown, Principal Investigator) College of Public Health, University of South Florida (Current).

Professional Service

National Institute on Alcoholism and Alcohol Abuse reviews (August 1-3, 1990; March 25, 1994; June 7-10 1994; July 21-22, 1994, Center grant reviews, June 1995, May 1 - 2, 1997).

National Institute on Drug Abuse reviews (June 17, 1992, October 14, 1992; March 28, 1994; October 4, 1994, June 11, 1996).

Member of the National Institute on Drug Abuse, Epidemiology and Prevention Review Committee 1996 - present.

Expert Panel on Evaluating Federal Media Prevention Programming. National Institute on Alcohol Use and Alcoholism.

Expert Panel on Alcohol Availability and Alcohol Problems. (Birch and Davis, Inc.) Center for Substance Abuse Prevention.

Expert Panel on School-based Drug Prevention. (Birch and Davis, Inc.) Center for Substance Abuse Prevention.

Reviewer: *Academic Press, Addictions, Addictive Behaviors, American Journal of Community Psychology, American Journal of Public Health, British Journal of Mathematical and Statistical Psychology, Child Development, Developmental Psychology, Drug and Alcohol Dependence, Health Psychology, Journal of Abnormal Psychology, Journal of Exercise and Sport Psychology, Journal of Marketing Research, Journal of Personality, Journal of Studies on Alcohol, Millbank Quarterly, Multivariate Behavioral Research, Prevention Science(Consulting Editor), Psychological Bulletin, Psychological Methods, Psychology and Marketing, Psychology of Addictive Behaviors (Consulting Editor), Psychonomic Bulletin & Review, Social Science & Medicine, Structural Equation Modeling.*

Organizer: Conference on Mediational Models in Prevention Research, March 23-24, 1998 at Arizona State University, Tempe, AZ.

Member: Research Awards Committee, College of Liberal Arts and Sciences, 2005-2006, Arizona State

University.

BIBLIOGRAPHY

PEER REVIEW

1. Geiselman, R. E., MacKinnon, D. P., Fishman, D. L., Jaenicke, C., Lerner, B., Schoenberg, S., & Schwartz, S. (1983). Mechanisms of hypnotic and nonhypnotic forgetting. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 9, 626-635.
2. Fisher, R., Geiselman, R. E., MacKinnon, D. P., & Holland, H. L. (1984). Interviews to enhance the memory of eyewitnesses to crime. *International Journal of Investigative and Forensic Hypnosis*, 7, 28-31.
3. Geiselman, R. E., Fisher, R., MacKinnon, D. P., & Holland, H. L. (1985). Eyewitness memory enhancement in the Police interview: Cognitive retrieval mnemonics versus hypnosis. *Journal of Applied Psychology*, 70, 401-414.
4. Geiselman, R. E., Rabow, V. E., Wachtel, S. L., & MacKinnon, D. P. (1985). Strategy control in intentional forgetting. *Human Learning*, 4, 169-180.
5. Guerin, D., & MacKinnon, D. P. (1985). An assessment of the impact of the California child seat restraint requirement. *The American Journal of Public Health*, 75, 142-144.
6. MacKinnon, D. P., Geiselman, R. E., & Woodward, J. A. (1985). The effects of effort on Stroop interference. *Acta Psychologica*, 58, 225-235.
7. Geiselman, R. E., Fisher, R., MacKinnon, D. P., & Holland, H. L. (1986). Eyewitness memory enhancement with the cognitive interview. *American Journal of Psychology*, 99, 385-401.
8. MacKinnon, D. P., & Woodward, J. A. (1986). The impact of raising the minimum drinking age on driver fatalities. *The International Journal of the Addictions*, 21, 1331-1338.
9. Fisher, D. G., MacKinnon, D. P., Anglin, M. D., & Thompson, J. P. (1987). Parental influences on substance abuse: Gender differences and stage theory. *The Journal of Drug Education*, 17, 69-85.
10. Mende, L., MacKinnon, D. P., & Geiselman, R. E. (1987). Memory for license plates as a function of exposure time. *Journal of Police Science and Administration*, 15, 68-71.
11. Memon, A., Dionne, R., Short, L., Maralani, S., MacKinnon, D. P., & Geiselman, R. E. (1988). Psychological factors in the use of photospreads. *Journal of Police Science and Administration*, 16, 62-69.
12. Dwyer, J. H., MacKinnon, D. P., Pentz, M. A., Flay, B. R., Hansen, W. B., Johnson, C. A., & Wang, E. (1989). Estimating intervention effects on longitudinally observed health behaviors: The Midwestern Prevention Project. *American Journal of Epidemiology*, 130, 781-795.
13. MacKinnon, D. P., Weber, M. D., & Pentz, M. A. (1989). How do school-based drug prevention programs work and for whom? *Drugs and Society*, 3, 125-143.
14. Pentz, M. A., Brannon, B. R., Charlin, V. L., Barret, E. J., MacKinnon, D. P., & Flay, B. R. (1989). The power of policy: Relationship of smoking policy to adolescent smoking. *American Journal of Public Health*, 79, 857-862.

15. Pentz, M. A., Dwyer, J. H., MacKinnon, D. P., Flay, B. R., Hansen, W. B., Wang, E., & Johnson, C. A. (1989). A multi-community trial for primary prevention of adolescent drug abuse: Effects on drug use prevalence. *Journal of the American Medical Association*, 261(22), 3259-3266.
16. Pentz, M. A., Johnson, C. A., Dwyer, J. H., MacKinnon, D. P., Hansen, W. B., & Flay, B. R. (1989). A comprehensive community approach to adolescent drug abuse prevention: Cardiovascular disease risk behaviors. *Annals of Medicine*, 21, 219-222.
17. Pentz, M. A., MacKinnon, D. P., Dwyer, J. H., Flay, B. R., Hansen, W. B., & Johnson, C. A. (1989). Primary prevention of chronic disease in adolescence: First year effects of the Midwestern Prevention Project (MPP) on tobacco use. *American Journal of Epidemiology*, 130, 713-724.
18. Pentz, M. A., MacKinnon, D. P., Dwyer, J. H., Wang, E., Hansen, W. B., Flay, B. R., & Johnson, C. A. (1989). Longitudinal effects of the Midwestern Prevention Project (MPP) on regular and experimental smoking in adolescents. *Preventive Medicine*, 18, 304-321.
19. Cohen, D., Dent, C., MacKinnon, D. P., & Galvan, C. (1990). Condom skills education & sexually transmitted disease reinfection. *Journal of Sex Research*, 28(1), 139-144.
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21. MacKinnon, D. P., O'Reilly, K., & Geiselman, R. E. (1990). Improving eyewitness recall for license plates. *Applied Cognitive Psychology*, 4, 129-140.
22. Pentz, M. A., Trebow, E. A., Hansen, W. B., MacKinnon, D. P., Dwyer, J. H., Flay, B. R., Daniels, S., Cormack, C., & Johnson, C.A. (1990). Effects of program implementation on adolescent drug use behavior: The Midwestern Prevention Project. *Evaluation Review*, 14(3), 264-289.
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26. Fabricius, W. V., Nagoshi, C. T., & MacKinnon, D. P. (1993). Beliefs about the harmfulness of drug use in adults who use different drugs. *Psychology of Addictive Behaviors*, 7(1), 52-65.
27. *Fenaughty, A., & MacKinnon, D. P. (1993). Immediate effects of the Arizona alcohol warning poster. *Journal of Public Policy and Marketing*, 12(1), 69-77.
28. MacKinnon, D. P. (1993). A choice-based method to compare alcohol warning labels. *Journal of Studies on Alcohol*, 54(5), 614-617.
29. MacKinnon, D. P., & Dwyer, J. H. (1993). Estimating mediated effects in prevention studies. *Evaluation Review*, 17(2), 144-158.
30. MacKinnon, D. P., & *Fenaughty, A. (1993). Substance use and memory for health warning labels. *Health Psychology*, 12(2), 147-150.

31. MacKinnon, D. P., Pentz, M. A., & Stacy, A. W. (1993). The alcohol warning label and adolescents: The first year. *American Journal of Public Health, 83*(4), 585-587.
32. Stacy, A. W., MacKinnon, D. P., & Pentz, M. A. (1993). Generality and specificity in health behaviors: Application to warning label and social influence expectancies. *Journal of Applied Psychology, 78*(4), 611-627.
33. *Fenaughty, A. M., Fisher, D. F., MacKinnon, D. P., Wilson, P. J., & Cagle, H. H. (1994). Predictors of condom use among Alaska native, white, and black drug users in Alaska. *Circumpolar Health, 53*, 704-711.
34. MacKinnon, D. P. (1994). Comment on Stam, Murry, and Lastovicka [Letter to the Editor], *Journal of the American Statistical Association, 89*, 724.
35. MacKinnon, D. P., Nemeroff, C., & *Nohre, L. (1994). Avoidance responses to alcohol warning labels. *Journal of Applied Social Psychology, 24*, 733-753.
36. MacKinnon, D. P., Pentz, M. A., Broder, B. I., & *MacLean, M. G. (1994) Social influences on adolescent driving under the influence in a sample of high school students. *Alcohol, Drugs, and Driving, 10* (3-4), July – December, 233-241.
37. Scribner, R., MacKinnon, D. P., & Dwyer, J. H. (1994). Alcohol outlet density and motor vehicle crashes in Los Angeles County cities. *Journal of Studies on Alcohol, 55*, 447-453.
38. MacKinnon, D. P., Scribner, R. S., & Taft, K. (1995). Development and applications of a city-level alcohol availability and alcohol problems database. *Statistics In Medicine, 14*, 591-604.
39. MacKinnon, D. P., *Warsi, G., & Dwyer, J. H. (1995). A simulation study of mediated effect measures. *Multivariate Behavioral Research, 30*(1), 41-62.
40. MacKinnon, D. P., *Williams-Avery, R., & Pentz, M. (1995). Youth beliefs and knowledge about the risks of drinking while pregnant. *Public Health Reports, 110*, 754-763. (Summary published in L. A. Egendorf (Ed.), *Teen alcoholism*. San Diego, CA: Greenhaven Press, Inc.).
41. Scribner, R., MacKinnon, D. P., & Dwyer, J. (1995). The risk of assaultive violence associated with alcohol outlets in Los Angeles County. *American Journal of Public Health, 85*, 335-340.
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44. Goldberg, L., Elliot, D. L., Clarke, G. N., MacKinnon, D.P., Zoref, L., Moe, E., Green, C., Wolf, S. L., & *Schoenherr, D. (1996). The adolescents training and learning to avoid steroids (ATLAS) prevention program: Background and results of model intervention. *Archives of Pediatric and Adolescent Medicine, 150*, 713-721.
45. Graham, J. W., Hofer, S. M., & MacKinnon, D. P. (1996). Maximizing the usefulness of data obtained with planned missing data patterns: An application of maximum likelihood procedures. *Multivariate Behavioral Research, 31*, 197-218.
46. Johnson, C. A., MacKinnon, D. P., & Pentz, M. A. (1996). Breadth of program and outcome

- effectiveness in drug abuse prevention, *American Behavioral Scientist*. 39, 884-896.
47. *Williams-Avery, R., & MacKinnon, D. P. (1996). Injuries and use of protective equipment among college in-line skaters. *Accident Analysis and Prevention*, 28, 779-784.
 48. Dwyer, J. H., & MacKinnon, D. P. (1997). Outcome measurement issues in drug abuse prevention studies. *Substance Use & Misuse*, 32 (12 & 13), 1667-1668.
 49. Fabricius, W. V., Nagoshi, C., & MacKinnon D. P. (1997). Concepts of drugs: differences in conceptual structure across groups with different levels of drug experience. *Addiction*, 92(7), 847-858.
 50. *Finch, J. F., West, S., & MacKinnon, D. P. (1997). Effects sample size and nonnormality on the estimation of mediated effects in latent variable models. *Structural Equation Modeling*, 4 (2), 87-107.
 51. Hecht, M., Trost, M., *Bator, R., & MacKinnon, D. P. (1997). Ethnicity and sex similarities and differences in drug resistance. *Journal of Communication*, 25, 75-97.
 52. *Barr, A., & MacKinnon, D. P. (1998). Designated driving among college students. *Journal of Studies on Alcohol*, 59, 549-554.
 53. Chou, C. P., Montgomery, S., Pentz, M. A., Rohrbach, L. A., Johnson, C. A., Flay, B. R., & MacKinnon, D. P. (1998). Effects of a community-based prevention program on decreasing drug use in high-risk adolescents. *American Journal of Public Health*, 88(6), 944-948.
 54. MacKinnon, D. P., & *Lapin, A. (1998). The effects of alcohol warnings and advertisements: A test of the boomerang hypothesis. *Psychology & Marketing*, 15(7), 707-726.
 55. *Krull, J. L., & MacKinnon, D. P. (1999). Multilevel mediation modeling in group-based intervention studies. *Evaluation Review*, 23(4), 418-444.
 56. MacKinnon, D. P., *Williams-Avery, R., *Wilcox, K., & *Fenaughty, A. (1999). Effects of the Arizona alcohol warning poster. *Journal of Public Policy and Marketing*, 18(1), 77-88.
 57. *Nohre, L., MacKinnon, D. P., Stacy, A. W., & Pentz, M. A. (1999). The association between adolescents' receiver characteristics and exposure to the alcohol warning label. *Psychology & Marketing*, 16(3), 245-259.
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 19. Tein, J.-Y., & MacKinnon, D. P. (2003) Estimating mediated effects with survival data. In H. Yanai, A.O. Rikkyo, K. Shigemasu, Y. Kano, & J.J. Meulman (Eds.) *New Developments in Psychometrics: Psychometric Society Proceedings* (pp. 405-412). Springer-Verlag: Tokyo.
 20. MacKinnon, D.P., *Nohre, L. (In Press). Chapter 59: Alcohol and Tobacco Warnings. In M. Wogalter (Ed) *Handbook of Human Factors Research on Warnings*.
 21. MacKinnon, D.P. *Introduction to statistical mediation analysis*. Manuscript in preparation.

ARTICLES SUBMITTED

1. MacKinnon, D. P., *Lockwood, C. M., Brown, C.H., & *Hoffman, J. M. (2004). The intermediate endpoint effect in logistic and probit regression. *Submitted to Clinical Trials*.
2. *Fritz, M. S., & MacKinnon, David P. (2005). Required sample size to detect the mediated effect. *Submitted to Psychological Methods*.
3. MacKinnon, D.P., *Yoon, M., *Lockwood, C.M., & *Taylor, A. (2005). A comparison of methods to test mediation and other intervening variable effects in logistic regression. *Submitted to Psychological Methods*.

ARTICLES IN PREPARATION

1. Merrill, R., MacKinnon, D. P., & Mayer, L. (2004). *Estimating mediated moderator effects in treatment studies*. Manuscript in preparation.
2. MacKinnon, D. P., & Tein, J. -Y. (2004). *Standard error of the three-path mediated effect*. Manuscript in preparation.
3. *Morgan-Lopez, A. A., MacKinnon, D. P., & Tein, J.-Y (2004). *Balancing computational ease, statistical power and type I error rates in mediated baseline by treatment interaction models*. Manuscript in preparation.
4. Moe, E. L., Goldberg, L., MacKinnon, D. P., *Lockwood, C., Kuehl, K. S., Elliot, D. L., *Cheong, J., & *Yoon, M. (2004). *Nutritional supplements: Are they precursors to anabolic steroid and other substance use?* Manuscript in preparation.
5. *Cheong, J., MacKinnon, D. P., Goldberg, L., & Moe, E. (2004). *The association of impulsivity and alcohol related problems among adolescent football players*. Manuscript in preparation.
6. MacKinnon, D.P., *Yoon, M., *Ryu, E., & *Fairchild, A. (2004). *Evaluation of the proportion mediated measure of mediation*. Manuscript in preparation.
7. *Hall, N. M., MacKinnon, D. P., & *Cheong, J. (2004). *Age of drinking onset and DUI in boats and cars*. Manuscript in preparation.
8. *Fairchild, A. J., & MacKinnon, David P. (2005) *Tests of significance for a person-centered approach to mediation*.

NON-PEER REVIEW

1. Corker, K., MacKinnon, D. P., Guokas, J., & Lyman, J. (August, 1982). Final Report: Effectiveness for veteran quadriplegics of medical manipulators and design specifications for improved control. *Biotechnology Laboratory Report*, Los Angeles, CA: UCLA-ENG-82-68.
2. MacKinnon, D. P., Corker, K., Guokas, J., & Lyman, J. (1982). Myoelectric control of rehabilitation equipment by quadriplegics. In *Proceedings of the Eighth Annual Meeting of the American Spinal Injury Association*, 106-109.
3. MacKinnon, D. P., Tanie, K., & Lyman, J. (August, 1982). Evaluation of myoelectric control using facial muscles. *Biotechnology Laboratory Report*, UCLA-ENG-82-67.
4. MacKinnon, D. P. (1984). Re-analysis of Morse code learning data using structural equation models. In *Proceedings of the 1984 Annual Meeting of the Human Factors Society*, 1, 215-219.
5. Tanie, K., MacKinnon, D. P., & Lyman, J. (1984). Evaluation of myoelectric control using facial muscles. *Biomechanisms*, 4, 105-113.
6. White, S., MacKinnon, D. P., & Lyman, J. (1985). Modified petri net modeling sensitivity to workload manipulations. In *Proceedings of the 21st Annual Conference on Manual Control*.
7. Dwyer, J. H., & MacKinnon, D. P. (1987). Investigating temporal asymmetries in longitudinal studies with differential equation models. In *Proceedings of the 1987 Public Health Conference on Records and Statistics*, 88, 1214. Hyattsville, MD: DHHS.

8. MacKinnon, D. P., & Wang, E. (1989). A SAS/IML matrix program to estimate indirect effects and their standard errors. In *SUGI 14: Proceedings of the Statistical Analysis System Conference*, 1151-1156.
9. Wang, E., Gong, A., & MacKinnon, D. P. (1991). A program to compute odds ratios and confidence intervals from LOGIST output. In *Sugi 16. Proceedings of the Sixteenth Annual SAS Users Group International Conference 1991*, 1228-1231.
10. MacKinnon, D. P. (1992). Statistical simulations in CALIS. In *Sugi 17. Proceedings of the Seventeenth Annual SAS Users Group International Conference 1992*, 1199-1203.
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12. Scribner, R., Galaif, J., & MacKinnon, D. P. (1992). Mapping alcohol availability in Los Angeles County: A practical application of SAS/GRAPH. In *Sugi 17. Proceedings of the Seventeenth Annual SAS Users Group International Conference 1992*, 1324-1328.
13. *Lockwood, C. M., & MacKinnon, D. P. (1998). Bootstrapping the standard error of the mediated effect. In *Proceedings of the Twenty-third Annual SAS Users Group International Conference* (pp. 997-1002). Cary, NC: SAS Institute, Inc.
14. MacKinnon, D. P., & *Nohre, L. (1999). *Influence of a multi-component drug prevention program on alcohol warning label measures*. (Tech. Rep.). Tempe, AZ: Arizona State University, Research in Prevention Laboratory.

COMPUTER PROGRAMS

1. MacKinnon, D. P. (1986). PLATEFINDER: An interactive program to aid in the recall of license plates, Copyright [Computer program].
2. MacKinnon, D. P., Dwyer, J. H., & Arminger, G. (1988). DIFFLONG: A program to calculate differential equation model parameters and their standard errors [Computer program].
4. MacKinnon, D. P. & Wang, E. (1989). INDIRECT: A program to calculate indirect effects and their standard errors [Computer program].
5. *Lockwood, C. M., & MacKinnon, D. P. (1998). BOOTME: Bootstrapping the standard error of the mediated effect. [Computer program]. In *Proceedings of the Twenty-third Annual SAS Users Group International Conference* (pp. 997-1002). Cary, NC: SAS Institute, Inc (also included in Non-Peer Review section).

INVITED PRESENTATIONS/WORKSHOPS

1. MacKinnon, D. P. (1989, May). *Prevention of adolescent drug abuse: Effects of the Midwestern Prevention Project*. Invited lecture at the University of Oklahoma Department of Public Health, Oklahoma City, Oklahoma.
2. MacKinnon, D. P. (1991, November). *Measuring how prevention programs achieve their effects: Reaching out to kids*. Workshop presented at the 1991 Conference on Drug Free Schools, Washington, D.C.

3. Goldberg, L., Elliot, D., & MacKinnon, D. P. (1993, December). *Development of an anabolic steroid prevention program*. Invited paper presented at the 1993 Conference on Drug Free Schools, Washington, DC.
4. MacKinnon, D. P. (1994, January). *Prevention programs should be more narrowly defined*. Presentation at conference on Tobacco, Alcohol, and Other Drug Abuse Prevention: Research directions and Policy Implications. University of California Tobacco Related Disease Research Program, Irvine, CA.
5. MacKinnon, D. P. (February, 1994). *Drug use in Indianapolis*. Invited paper presented at the 1991 Indianapolis News Conference for High School Journalists. Indianapolis, Indiana. November, 1991 and 1992.
6. MacKinnon, D. P. (1994, May). *Social influences on adolescent drinking and driving*. International Conference on Alcohol, Drugs, and Driving.
7. MacKinnon, D. P. (1996, April). *Long-term effects of the alcohol warning label*. American Association for Addiction Medicine, Atlanta, Georgia.
8. MacKinnon, D. P. (1996). *The ingredients of successful prevention programs: A scientific analysis*. National Prevention Network, Tucson, Arizona.
9. MacKinnon, D. P. (1996, October). *Multiple mediator models*. Prevention Research Methodology Group, Tempe, AZ.
10. MacKinnon, D. P., Goldberg, L., Elliot, D., Clarke, G., *Lapin, A. and Robinson, G. (1996, June). *Estimation of mediated effects in multiple mediator models*. Society for Prevention Research, San Juan, Puerto Rico.
11. MacKinnon, D. P. (1997, July). *Warning label 5th year effects*. 1997 meeting of the Research Society on Alcoholism, San Francisco, CA.
12. MacKinnon, D. P. (1997, August). *Mediation analysis in prevention research*. Paper presented at the 1997 meeting of the American Psychological Association, Chicago, IL.
13. MacKinnon, D. P. & Tein, J. -Y. (1997, October). *Mediation models for implementation data*. Prevention Research Methodology Meeting, Seattle, WA.
14. MacKinnon, D. P. & *Nohre, L. (2000, July-August). *Effects of the United States alcohol warning label on adolescents*. IEA/HFES 2000 Congress, San Diego, CA.
15. MacKinnon, D. P. (2000, August). *Evaluating community strategies and programs*. The 2nd National Conference on Drug Abuse Prevention. Washington, DC.
16. MacKinnon, D.P. (2003, March). *Comparison of single sample and resampling tests for mediation*. Society for Prevention Research, Washington, DC.
17. MacKinnon, D.P. (2003, November). *Finding structural needles in statistical haystacks: Methods for identifying mediators and moderators*. Mediators & Moderators Workshop, Western Psychiatric Institute & Clinic at the University of Pittsburgh School of Medicine, Pittsburgh, PA.
18. MacKinnon, D.P. (2003, July). *Mediation analysis in social psychology*, workshop on mediation. Society of Personality and Social Psychology Summer Institute in Social Psychology, Boulder, CO.

19. MacKinnon, D.P. (2003, November). *Moderators and mediators of treatments in randomized controlled trials*. Association for Advancement of Behavior Therapy, Boston MA.
20. MacKinnon, D.P. (2003, December). *Mediators, moderators, & more*. University of Southern Florida, Tampa, FL.
21. MacKinnon, D. P. (2004, February). *Mediating Mechanisms*. National Institute on Drug Abuse Meeting on the Mechanisms of Action of Behavioral Treatments, Washington, DC.
22. MacKinnon, D.P., & Alwin, D. (2004, March). Led a breakout discussion section at the Merrill Advanced Studies Center conference on *Modeling Developmental Processes in Ecological Context*, Tempe, AZ.
23. MacKinnon, D.P. (2004, March). *Methodology for MH/drug prevention & early intervention mediation analysis*. Presentation to the University of South Florida Prevention Science & Methodology Group. Tampa, FL.
24. MacKinnon, D.P. (2004, April). *Statistical mediation analysis*. Workshop presentation at the 84th annual convention of the Western Psychological Association, Phoenix, AZ.
25. MacKinnon, D.P. (2004, November) *Mediation Models for Longitudinal Data*. Presentation given at the Arizona State University Prevention in Research Center Postdoc seminar, Tempe, AZ.

ABSTRACTS AND PRESENTATIONS TO SCIENTIFIC SOCIETIES

1. Tourtellotte, W. W., Syndulko, K., Potvin, A. R., Ulmer, R., & MacKinnon, D. P. (1983, April). *Early Sinemet treatment in Parkinson's disease: A favorable result based on an objective instrumented neurologic test battery*. American Academy of Neurology.
2. Fisher, R. P., Geiselman, R. E., MacKinnon, D. P., & Holland, H. L. (1984). Applying cognitive theory to enhance eyewitness memory. *Bulletin of the Psychonomic Society*, 22(4), 278.
3. MacKinnon, D. P., & Hofacker, C. H. (1984, April). *Multidimensional scaling of feelings of loneliness*. Paper presented at the 64th Convention of the Western Psychological Society.
4. Howard, E., MacKinnon, D. P., Woodward, J. A., & Thomas, J. (1984, May). *Single subject ANOVAs: Testing and correcting for dependent observations*. Association for Research in Vision and Ophthalmology.
5. Fisher, R., Geiselman, R. E., MacKinnon, D. P., & Holland, H. L. (1984, November). *Applying cognitive theory to enhance eyewitness memory*. Psychonomic Society 25th Annual Meeting.
6. MacKinnon, D. P., & Bjork, R. A. (1986, May). *A Markov interpretation for multiple efforts to retrieve from LTM*. Paper presented at the 66th Annual Convention of the Western Psychological Association.
7. MacKinnon, D. P., O'Reilly, K., & Geiselman, R. E. (1986, May). *Memory for license plates*. Paper presented at the 66th Annual Convention of the Western Psychological Association.
8. MacKinnon, D. P., Pentz, C. A., & Pentz, M. A. (1986, November). *Psychometric Investigation of biobehavioral indicators of stress in adolescents*. Paper presented at the Association for the Advancement of Behavior Therapy convention.

9. MacKinnon, D. P., Memon, A., O'Reilly, K., & Geiselman, R. E. (1986, December). *Strategies for improving eyewitness recall for license plates*. Paper presented at the 1986 meeting of the Southern California Human Factors Society.
10. Donaghue, J., MacKinnon, D. P., Pentz, M. A., & Pentz, C. A. (1987, April). *Reliability of reported drug use under varying distributional assumptions*. Paper presented at the Western Psychological Association meeting.
11. Kwinn, A. T., MacKinnon, D. P., Pentz, M. A., & Pentz, C. A. (1987, April). *Correlates of social support in adolescents*. Paper presented at the Western Psychological Association meeting.
12. Dwyer, J. H., & MacKinnon, D. P. (1987, June). *Differential equation models for longitudinal data*. Society for Epidemiologic Research.
13. Dwyer, J. H., & MacKinnon, D. P. (1987). Fitting longitudinal data to continuous time differential equation models. *American Journal of Epidemiology*, 126, 759.
14. MacKinnon, D. P., Pentz, M. A., Sussman, S., Dent, C., Dwyer, J. H., Flay, B. R., Hansen, W. B., & Johnson, C. A. (1988). Risk taking, population density, and smokeless tobacco use. *American Public Health Association*, 104
15. Pentz, M. A., Pentz, C. A., & MacKinnon, D. P. (1988). Adolescent stress, drug use, and blood pressure. *American Journal of Epidemiology*, 128, 891-892.
16. MacKinnon, D. P., Pentz, M. A., Sussman, S., Dent, C., Dwyer, J. H., Flay, B. R., Hansen, W. B., & Johnson, C. A. (1988, November). *Risk Taking, population density, and smokeless tobacco use*. American Public Health Association.
17. Johnson, C. A., MacKinnon, D. P., Pentz, M. A., Dwyer, J. H., Hansen, W. B., & Flay, B. R. (1988, December). *Which risks to communicate? Lessons learned from drug abuse prevention campaigns*. Paper presented at the 1988 Symposium on Science Communication: Environmental and Health Research, Annenberg School of Communications, University of Southern California. Los Angeles, CA.
18. Dwyer, J. H., Feinleib, M., MacKinnon, D. P., Wang, E., & Curtin, L. (1989, June). *Mediated and independent association between relative weight and coronary risk in Framingham*. American Heart Association.
19. Dwyer, J. H., Pentz, M. A., MacKinnon, D. P., & Johnson, C. A. (1989, June). *Prevention of cigarette use in two US cities: The Midwestern Prevention Project*. American Heart Association.
20. Weber, M. D., Johnson, C. A., MacKinnon, D. P., Dietsch, B., Caldwell-Stacy, L., Palmer, R., Flay, B. R., & Hansen, W. B. (1989, August). *Project SHARP: Preliminary findings of an adolescent healthy lifestyle program*. Paper presented at the 1989 meeting of the American Psychological Association.
21. MacKinnon, D. P., & Pentz, M. A. (1989, October). *Social influence programs to prevent adolescent drinking and driving*. Presented at the Thirtieth Association for Criminal Justice Research (California) conference.
22. Cohen, D., Dent, C., & MacKinnon, D. P. (1990). *Safer sex education and STD reinfection*. Sixth International Conference on AIDS.
23. Weber, M. D., Dwyer, J. H., Rose, T. P., MacKinnon, D. P., & Kerndt, P. R. (1990). Differences

- between gay/bisexual and heterosexual men in a multivariate risk factor profile for HIV infection. *American Journal of Public Health*, 7.
24. MacKinnon, D. P., & Dwyer, J. H. (1990, December). *Measuring how prevention programs achieve their effects*. Paper presented at the Center for Disease Control Symposium on Statistical Methods for Evaluation of Intervention and Prevention Strategies.
 25. Cohen, D., MacKinnon, D. P., & Hansen, W. B. (1991). Can parents predict whether their seventh grade children use drugs? *American Journal of Public Health*.
 26. Dwyer, J. H., & MacKinnon, D. P. (1991). Estimating mediated effects in risk regression models. *American Journal of Epidemiology*, 134(7), 716.
 27. MacKinnon, D. P., Warsi, G., & Dwyer, J. H. (1991, June). *A simulation study of the variance of indirect effect measures*. Paper presented at the 1991 Psychometric Society Meeting.
 28. MacKinnon, D. P., Taft, K. A., *Bizzell, L., *Nohre, L., Stacy, A. W., & Pentz, M. A. (1991, November). Adolescent beliefs about drinking while pregnant. *American Journal of Public Health*. Presentation at the Annual Meeting of the APHA, Atlanta, GA.
 29. Scribner, R. A., & MacKinnon, D. P. (1991, November). *Development of city-level archive of alcohol availability and related outcomes*. Presentation at the Annual Meeting of the APHA, Atlanta, GA.
 30. *Fenaughty, A., MacKinnon, D. P., & Taft, K. A. (1992, April). *Effects of the Arizona alcohol warning poster*. Paper presented at the 1992 meeting of the Western Psychological Association.
 31. Hofer, S. M., Graham, I. W., & MacKinnon, D. P. (1992, June). *Use of EM Algorithm with data obtained with planned missing value patterns*. Paper presented at the 1992 Meeting of the American Psychological Society.
 32. Stacy, A. W., MacKinnon, D. P., & Pentz, M. A. (1992, June). *Predictive strength about the risks mentioned on alcohol warning labels*. Paper presented at the 1992 Meeting of the Research Society on Alcoholism. San Diego, CA.
 33. MacKinnon, D. P., Dwyer, J. H., & Warsi, G. (1992, July). *Estimating mediation effects in logistic and probit regression*. Paper presented at the 1992 meeting of the Psychometric Society.
 34. MacKinnon, D. P., Pentz, M. A., Stacy, A., & Taft, K. (1993). *Two year effects of the government mandated alcohol warning label*. Presented at the annual meeting of the American Public Health Association, San Francisco, CA.
 35. *Barr, A., & MacKinnon, D. P. (1993, April). *Attitudes about designated drivers in a college sample*. Presentation at the Western Psychological Association's 73rd Annual Convention combined with the Rocky Mountain Psychological Association's 63rd Annual Convention, Phoenix, AZ.
 36. *Bryan, A. D., MacKinnon, D. P., & Fisher, L. (1993, April). *Recording Industry of America's parental advisory label: Recall and exposure*. Presentation at the Western Psychological Association's 73rd Annual Convention combined with the Rocky Mountain Psychological Association's 63rd Annual Convention, Phoenix, AZ.
 37. MacKinnon, D. P., Pentz, M. A., Stacy, A., & *Fenaughty, A. (1993, April). *Adolescent knowledge and beliefs about Fetal Alcohol Syndrome*. Presentation at the Western Psychological Association's 73rd Annual Convention combined with the Rocky Mountain Psychological Association's 63rd Annual Convention, Phoenix, AZ.

38. *Nohre, L., MacKinnon, D. P., & Stacy, A. (1993, April). *Controlled associations to alcohol use consequences*. Presentation at the Western Psychological Association's 73rd Annual Convention combined with the Rocky Mountain Psychological Association's 63rd Annual Convention, Phoenix, AZ.
39. MacKinnon, D. P. (1994, June). *Meta-analysis of six alcohol warning label field studies*. Presentation at the Research Society on Alcoholism Conference, Maui, HI.
40. MacKinnon, D. P., Scribner, R. H., & *Taft, K. (1993, January). *Development of a local alcohol availability and alcohol problems database*. Paper presented at the Center for Disease Control symposium on Statistical Methods.
41. Broder, B. I., MacKinnon, D. P., Pentz, M. A., & Baehner, R. L. (1993, February). *Effects of a drug prevention program on adolescent driving after drug or alcohol use: The Midwestern Prevention Project*. Abstract presented at the 1993 Western Section Meeting of the American Federation for Clinical Research, Carmel, CA.
42. *MacLean, M. G., MacKinnon, D. P., & Pentz, M. A. (1994, August). *Curvilinear relationship between coping and alcohol abuse*. Paper presented at the 1994 meeting of the American Psychological Association, Los Angeles, CA. Won the best student paper award in Addictions.
43. *MacLean, M. G., MacKinnon, D. P., & Pentz, M. A. (1995, March/April). *Differences in the prediction of adolescent drinking and drinking-related problems*. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Indianapolis, IN.
44. *Lapin, A., *Landerer, A., & MacKinnon, D. P. (1995, April). *The effects of alcohol warnings and advertisements on benefit and risk perceptions*. Western Psychological Association, Los Angeles, CA.
45. Elliot, D., Goldberg, L., Clarke, G., Zoref, L., Moe, E., MacKinnon, D. P., Green, C., Wolf, S., Miller, D., & Greffrath, E. (1995). *Characterizations of adolescent athletes with high behavioral intent to use anabolic steroids*. Third IOC World Congress on Sport Sciences, Atlanta, GA.
46. Goldberg, L., Elliot, D., Clarke, G., Zoref, L., Moe, E., MacKinnon, D. P., Green, C., Wolf, S., Miller, D., & Greffrath, E. (1995). *Does age affect factors that relate to ergogenic drug use? Differences among athletes aged 14 to 18*. Third IOC World Congress on Sport Sciences, Atlanta, GA.
47. Goldberg, L., Elliot, D. L., Clarke, G. N., Zoref, L., MacKinnon, D. P., Moe, E., Green, C., Wolf, S. L., & Schoenherr, D. (1995). Adolescents training and learning to avoid steroids (ATLAS): Initial results of a prevention program. *Medicine & Science in Sports & Exercise (Supplement) 27*, S173. (Presented at ACSM National Meeting, 1995).
48. Goldberg, L., Elliot, D., Clarke, G., MacKinnon, D. P., Moe, E., Green, E., Greffrath, E., Miller, D., & Wolf, S. (1996). The ATLAS (Adolescents Training and Learning to Avoid Steroids) intervention: First year results. *Medicine & Science in Sports & Exercise (Supplement) 28*, S918. (Presented at ACSM National Meeting, 1996).
49. Moe, E., Goldberg, L., Elliot, D., Clarke, G., & MacKinnon, D. P. (1996). The ATLAS (Adolescents Training and Learning to Avoid Steroids) program: Impacting on refusal skills. *Medicine & Science in Sports & Exercise (Supplement) 28*, S920. (Presented at ACSM National Meeting, 1996).
50. *Williams-Avery, R., & MacKinnon, D. P. (1996, August). *Predictors of protective gear use among in-line skaters*. American Psychological Association, Toronto, Canada.

51. Goldberg, L., Elliot, D. L., MacKinnon, D. P., Moe, E., et al. (1997). The ATLAS (Adolescents Training and Learning to Avoid Steroids) program: Effects during 2 seasons. *Medicine & Science in Sports & Exercise*, 29S, S293.
52. Goldberg, L., Elliot, D. L., Moe, E. L., Clarke, G. N., & MacKinnon, D. P. (1997). Reducing the risk of anabolic steroid use among adolescent athletes: The ATLAS program. *Fourth IOC World Congress Proceedings*, 92.
53. *Lockwood, C., & MacKinnon, D. P. (1997, April). *Power to detect mediated effects in experimental and correlational studies*. 1997 meeting of the Western Psychological Association, Seattle, WA.
54. MacKinnon, D. P. (1997, July). *Warning label 5th year effects*. 1997 meeting of the Research Society on Alcoholism, San Francisco, CA.
55. MacKinnon, D. P. (1997, August). *Mediation analysis in prevention research*. Paper presented at the 1997 meeting of the American Psychological Association, Chicago, IL.
56. MacKinnon, D. P. & *Krull, J. (1997, August). *Inconsistent mediation models*. Poster presented at the 1997 meeting of the American Psychological Association, Chicago, IL.
57. MacKinnon, D. P., Sandler, I., Wilcox, K., & *Bell, R. (1997, August). *Identification of family stress risk factors for child symptomatology using attributable risk*. Paper presented at the 1997 meeting of the American Psychological Association, Chicago, IL.
58. Moe, E., Goldberg, L., Elliot, D., & MacKinnon, D. P. (1998). Modification and replication of the ATLAS (Adolescents Training and Learning to Avoid Steroids) program. *Medicine & Science in Sports & Exercise*, 30, S92.
59. *Lockwood, C., & MacKinnon, D. P. (1998, March). *Bootstrapping the standard error of the mediated effect*. Presented at the 23rd Annual Meeting of SAS Users Group International. Nashville, TN.
60. MacKinnon, D. P. (1998, March). *Distribution of products approaches to testing the significance of mediation effects*. Paper presented at Arizona State University's Conference on Mediation Models in Prevention Research, Tempe, AZ.
61. MacKinnon, D. P., *Lockwood, C., & *Hoffman, J. (1998, June). *A new method to test for mediation*. Paper presented at the Society for Prevention Research Annual Meeting, Park City, UT.
62. MacKinnon, D. P., Goldberg, L., Elliot, D., & Clarke, G. (1998, August). *Effects of a steroid prevention program on adolescent athletes*. Paper presented at the American Psychological Association, San Francisco, CA.
63. *Cheong, J., MacKinnon, D. P., & Khoo, S. T. (1998, October). *A latent growth modeling approach to mediation analysis*. Poster session presented at the Conference on New Methods for the Analysis of Change, State College, PA.
64. *Nohre, L., MacKinnon, D. P., & Sadalla, E. K. (1998, October). *The effects of warning false alarms on driving behavior*. Poster session presented at the 42nd annual meeting of the Human Factors and Ergonomics Society, Chicago, IL.
65. *Cheong, J., MacKinnon, D.P., & *Nohre, L. (1999, June). *Effects of alcohol expectancies on adolescent drunk driving: A longitudinal growth curve analysis*. Poster presented at the 7th Annual

Meeting of the Society for Prevention Research Convention, New Orleans, LA.

66. MacKinnon, D.P., *Nohre, L., & *Cheong, J. (1999, June). *Longitudinal models for the effects of alcohol warnings on adolescent alcohol use*. Poster presented at the 7th Annual Meeting of the Society for Prevention Research Convention, New Orleans, LA.
67. MacKinnon, D. P., *Nohre, L., *Cheong, J., & *Gerend, M. (1999, June). *Longitudinal effects of warning label exposure on alcohol consumption*. Abstract presented at the 22nd Annual Scientific Meeting of the Research Society on Alcoholism, Santa Barbara, CA.
68. *Taborga, M. P., MacKinnon, D. P., & *Krull, J. L. (1999, June). *A simulation study of effect size measures in mediation models*. Poster presented at the 7th Annual Meeting of the Society for Prevention Research, New Orleans, LA.
69. Lee, H., Buller, D., Chassin, L., Kronenfeld, J., & MacKinnon, D. (2000). Influence of Cigarette promotion on mediators of smoking. In R. Lu, J. Mackay, S. Niu & R. Peto (Eds), *Tobacco: The growing epidemic - Proceedings of the Tenth World Conference on Tobacco or Health*, 24-28 August 1997, Beijing, China, (pp. 353-357). London: Springer.
70. MacKinnon, D. P., & *Nohre, L. (2000). Effects of the United States alcohol warning label on adolescents. In *Proceedings of the International Ergonomics Association XIVth Triennial Congress and Human Factors and Ergonomics Society 44th Annual Meeting* (pp. 806-810). Santa Monica, CA: Human Factors and Ergonomics Society.
71. *Guadagno, R. E., MacKinnon, D. P., *Nohre, L., *Cheong, J., & *Lockwood, C. M. (2000, April). *Gender differences in attitudes toward drug testing*. Abstract presented at the 80th annual convention of the Western Psychological Society, Portland, OR.
72. *Lockwood, C. M., MacKinnon, D. P., & *Nohre, L. (2000, April). *Attitudes toward tattoos and body piercings*. Poster presented at the 80th annual convention of the Western Psychological Society, Portland, OR.
73. *Cheong, J., MacKinnon, D. P., Goldberg, L., & Moe, E. (2000, June). *Effects of impulsivity on alcohol use and DWI of adolescent football players*. Poster presented at the Research Society on Alcoholism, Denver, CO.
74. *Morgan-Lopez, A. A., Castro, F. G., Chassin, L. A. & MacKinnon, D. P. (2000, June). *A mediated moderation model of tobacco use in Mexican-American youth*. Paper presented at the 8th Annual Meeting of the Society for Prevention Research, Montreal, Quebec.
75. *Schultz, A., MacKinnon, D. P., Sandler, I. & Ayers, T. (2000, June). *The utility of attributable risk in identifying child behavior problems*. Paper presented at the 8th Annual Meeting of the Society for Prevention Research, Montreal, Quebec.
76. Tein, J. -Y., Sandler, I. N., MacKinnon, D. P., & Wolchik, S. A. (2000, June). *Testing of mediation when program effects interact with pretest mediator of outcome variables*. Paper presented at the 8th Annual Meeting of the Society for Prevention Research Conference, Montreal, Quebec.
77. MacKinnon, D. P., Goldberg, L., *Cheong, J., & Moe, E. (2000, September). *Differences in prevention program effects by cohort: Results of a study to prevent anabolic steroid use*. Paper presented at the Addictions 2000 Conference, Cape Cod, MA.
78. MacKinnon, D. P., Wentzel, T. M., Chassin, L., & Lee, H. -R. (2000, September). *Mapping tobacco prevalence and vendor buy rates*. Paper presented at the Addictions 2000 Conference, Cape Cod, MA.

79. Goldberg, L., Elliot, D. L., MacKinnon, D. P., Moe, E., Kuehl, K. S., *Nohre, L., & *Lockwood, C. (2001). Drug testing adolescent athletes: Does it reduce drug use? Results of a prospective, randomized trial. *Medicine and Science in Sports and Exercise*, 35, 5. Presented at the ACSM 2001 National Meeting, May & June, Baltimore, MD.
80. Trost, M. R., Yoshimura, S. M., Langan, E. J., Moor, M. C., & MacKinnon, D. P. (2001, February). *Uncovering relational drug resistance in high school*. Paper presented at the annual meeting of the Western States Communication Association, Coeur d'Alene, ID.
81. Lee, H.-R., MacKinnon, D. P., Raner-Moore, J., Buller, D., Chassin, L., & Kronenfeld, J. (2001, March). *Effectiveness of a comprehensive community intervention in reducing youth tobacco use: Tucson Full Court Press*. Presented at the 22nd annual meeting of the Society of Behavioral Medicine, Seattle, WA.
82. Goldberg, L., Elliot, D. L., MacKinnon, D. P., Moe, E., Kuehl, K. S., *Nohre, L., & *Lockwood, C. (2001 May & June). *Drug testing adolescent athletes: Does it reduce drug use? Results of a prospective, randomized trial*. Presented at the ACSM 2001 National Meeting, Baltimore, MD.
83. MacKinnon, D. P., Goldberg, L., *Cheong, J., Elliot, D., Clarke, G., & Moe, E. (2001, May). *Strength, leanness and male adolescent body image*. Abstract presented at the annual meeting of the Western Psychological Association, Maui, HI.
84. MacKinnon, D. P., & *Lockwood, C. M. (2001, May). *An approximate randomization test for the mediated effect*. Abstract presented at the annual meeting of the Western Psychological Association, Maui, HI.
85. MacKinnon, D. P., *Taborga, M. P., & *Morgan-Lopez, A. A. (2001, June). *Mediation designs for tobacco prevention research*. Presented at the 9th annual meeting of the Society for Prevention Research, Washington, DC.
86. *Morgan-Lopez, A. A., & MacKinnon, D. P. (2001, June). *A mediated moderation model simulation: Mediation processes that vary as a function of second predictors*. [Abstract]. Presented at the 9th annual meeting of the Society for Prevention Research, Washington, DC.
87. Tein, J.-Y., & MacKinnon, D. P. (2001, July). *Estimating mediated effects with survival data*. Presented at the International Meeting of the Psychometric Society, Osaka, Japan.
88. *Williams, J., & MacKinnon, D. P. (2002, April). *Selection bias and the estimation of the mediated effect*. Paper submitted for presentation at the Western Psychological Association annual meeting, Irvine, CA.
89. *Yoon, M., MacKinnon, D. P., & *Lockwood, C. M. (2002, April). *The difference in coefficient test for mediation in logistic regression*. Paper submitted for presentation at the Western Psychological Association annual meeting, Irvine, CA.
90. *Cheong, J., & MacKinnon, D. P. (2002, May-June). *A simulation study on latent growth model to test mediation*. Abstract submitted for presentation at the Society for Prevention Research annual meeting, Seattle, WA.
91. *Cheong, J., MacKinnon, D. P., *Williams, J., Goldberg, L., & Moe, E. L. (2002, May-June). *Long-term program effects of a program to prevent anabolic steroid use*. Abstract submitted for presentation at the Society for Prevention Research annual meeting, Seattle, WA.
92. MacKinnon, D. P., Goldberg, L., *Cheong, J., *Williams, J., Moe, E. L., Elliot, D., & Clarke, G. (2002, May-June). *Mediating mechanisms in the second cohort of a program to prevent anabolic*

- steroid use*. Abstract submitted for presentation at the Society for Prevention Research annual meeting, Seattle, WA.
93. MacKinnon, D. P., *Lockwood, C. M., *Williams, J., & *Anderson, G. (2002, May-June). *A comparison of single sample and resampling tests for the mediated effect*. Abstract submitted for presentation at the Society for Prevention Research annual meeting, Seattle, WA.
 94. *Morgan-Lopez, A. A., MacKinnon, D. P., Goldberg, L., & Moe, E. L. (2002, May-June). *The influence of participation in athletics on adolescent intoxication and DUI: A multi-level, multiple-mediator model of sport-specific risk and protection*. Presented at the Society for Prevention Research 10th annual meeting, Seattle, WA.
 95. *Williams, J., MacKinnon, D. P., & *Cheong, J. (2002, May-June). *The effect of missing data techniques on mediated program estimates*. Abstract submitted for presentation at the Society for Prevention Research annual meeting, Seattle, WA.
 96. *Cheong, J., MacKinnon, D. P., & Pentz, M. A. (2002, June-July). *Evaluation of mediating mechanisms of a drug prevention program to reduce adolescent DUI*. Abstract submitted for presentation at the Research Society on Alcoholism, San Francisco, CA.
 97. Lee, H.-R., Ranger-Moore, J., MacKinnon, D. P., Chassin, L., Buller, D., & Kronenfeld, J. (2002, November). *Effectiveness of a comprehensive community intervention in reducing youth smoking*. Abstract submitted for presentation at the annual meeting of the 2002 National Conference on Tobacco or Health, San Francisco, CA.
 98. MacKinnon, D.P., *Yoon, M., *Lockwood, C. (June 2003). *Comparison of methods to assess mediation in logistic regression*. Abstract submitted for presentation at the 11th annual Society for Prevention Research, Washington, D.C.
 99. *Fritz, M.S., MacKinnon D.P., Goldberg, L., Moe, E.L., & Elliot, D.L. (2004, April) *Baseline by treatment interactions in the atlas drug prevention program*. Poster presented at the 84th annual convention of the Western Psychological Association, Phoenix, AZ.
 100. *Nagurney, A.J., MacKinnon, D.P., & Guadagno, R.E. (2004, April) *College student attitudes toward drug testing*. Poster presented at the 84th annual convention of the Western Psychological Association, Phoenix, AZ.
 101. *Hall, N.M., *Cheong, J., & MacKinnon, D.P. (2004, April). *Age of drinking onset and DUI in boats and cars*. Poster presented at the 84th annual convention of the Western Psychological Association, Phoenix, AZ.
 102. *Patock-Peckham, J.A., *Cheong, J., MacKinnon, D.P., & Pentz, M.A. (2004, April). *The midwestern prevention project: the moderating effects of sensation seeking*. Poster presented at the 84th annual convention of the Western Psychological Association, Phoenix, AZ.
 103. *Allgood, S., & MacKinnon, D.P. (2004, April). *Dram shop liability laws in the Midwest*. Poster presented at the 84th annual convention of the Western Psychological Association, Phoenix, AZ.
 104. MacKinnon, D.P., Jo, B., Brown, C. H., Kellam, S. G., & Sobel, M. (2004, May). *Mediation and moderation in prevention research*. Abstract presented at the 12th annual meeting of the Society for Prevention Research, Québec City, Québec.
 105. MacKinnon, D.P., *Williams, J., & *Yoon, M. (2004, May). *Evaluation of mediation tests from surrogate endpoints research*. Abstract presented at the 12th annual meeting of the Society for Prevention Research, Québec City, Québec.

106. Ryu, S., *Cheong, J., & MacKinnon, D. P. (2004, May). *Investigation of characteristics of DWI college students*. Abstract presented at the 12th annual meeting of the Society for Prevention Research, Québec City, Québec.
107. Weaver, S., *Cheong, J., & MacKinnon, D. P. (2004, May). *Ethnic differences in alcohol use and peer norms: Investigation of a mediation model*. Abstract presented at the 12th annual meeting of the Society for Prevention Research, Québec City, Québec.
108. MacKinnon, D. P. (2004, May). *New designs and methods for trials research*. Poster chair session at the 12th annual meeting of the Society for Prevention Research, Québec City, Québec.
109. MacKinnon, D.P. (2004, June). *Introduction to Statistical Mediation Analysis*. Presentation given at the Research Foundation of SUNY, Buffalo, NY.
110. MacKinnon, D.P., *Yoon, M., & *Ryu, E. (2004, July). *Evaluation of the proportion mediated effect size measure*. Abstract presented at the 112th annual convention of the American Psychological Association, Honolulu, HI.
111. MacKinnon, D.P., *Williams, J., *Lockwood, C., & *Fritz, M. (2004, July). *Empirical power of 20 mediation tests*. Abstract presented at the 112th annual convention of the American Psychological Association, Honolulu, HI.
112. *Williams, J., & MacKinnon, D.P. (2004, July). *Power and type I error rates of contrasts of indirect effects*. Abstract presented at the 112th annual convention of the American Psychological Association, Honolulu, HI.
113. *Cheong, J., MacKinnon, D., *Williams, J., & *Fritz, M. (2005, May). *Evaluation of longitudinal mediating mechanisms of a drug prevention program for adolescent athletes*. A paper to be presented at the annual convention of the Society for Prevention Research. [Submitted for consideration of presentation] Washington, DC.
114. *Fritz, M.S., & MacKinnon, D.P. (2005, May). *Sample size and statistical power in tests of mediation*. A paper presented at the annual meeting of the Society for Prevention Research, Washington, D.C.

*Indicates an Arizona State University Student