

JASON T. NEWSOM, PH.D.
CURRICULUM VITAE

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EDUCATION

Doctorate (Ph.D.), Social Psychology, Arizona State University, Tempe, AZ, August, 1993.
Master of Arts (M.A.), Social Psychology, Arizona State University, Tempe, AZ, December, 1990.
Bachelor of General Studies (B.G.S.), Major: Psychology, University of Kansas, Lawrence, KS, May, 1987.

PROFESSIONAL EXPERIENCE

1991 Instructor, Introductory Statistics, Department of Psychology, Arizona State University
1991 Instructor, Introductory Psychology, Department of Psychology, Arizona State University
1992 Teaching Assistant, Advanced Multivariate Analysis, Department of Psychology, Arizona State University
1992 – 1993 Statistician, Life Events and Aging Project, Department of Psychology, Arizona State University
1993 – 1994 Statistical Consultant, University Center for Social and Urban Research and Western Psychiatric Institute and Clinic, University of Pittsburgh.
1994 – 1996 Research Associate, University Center for Social and Urban Research, University of Pittsburgh.
1994 – 1996 Statistician, National Caregiver Health Effects Study, NIMH (MH46015).
1995 – 1996 Psychometrician, coordinating center for Resources for Enhancing Alzheimer's Caregiver Health (REACH), NIA (AG13305).
1996 – 1997 Research Associate, statistician, Regional Research Institute, Portland State University
1996 – 1997 Adjunct Assistant Professor, Department of Psychology, Portland State University
1997 – 2003 Senior Research Associate, Institute on Aging, Portland State University
1999 – present Adjunct Faculty, College of Urban and Public Affairs, Portland State University. Instructor: Data Analysis I (Graduate), Data Analysis II (Graduate), Advanced Statistics: Multilevel Regression (Graduate), Advanced Statistics: Structural Equation Modeling.
2003 – 2004 Research Assistant Professor, Institute on Aging, School of Community Health, Portland State University.
2004 – present Associate Professor, Institute on Aging, School of Community Health, Portland State University.

PROFESSIONAL AFFILIATIONS

Fellow, *Gerontological Society of America*, 2011-present
Member, *Gerontological Society of America*, 2000-present
Member, *American Psychological Association (APA)*, February, 1996-present.
Member, *APA Division 5, Evaluation, Measurement, and Statistics*, March, 1997-present.
Member, *APA Division 20, Psychology and Aging*, March, 1997-present.

GRANTS

Health Behavior Trajectories Following Chronic Illness in Mid to Late Life, *Principal Investigator*, National Institute on Aging (R01 AG034211), September 1, 2009-August 31, 2012. The purpose of this study is to examine changes in health behaviors among individuals with chronic conditions in middle and late life.

Social Exchanges and Mortality: The Relative Importance of Conflict and Support, *Principal Investigator*, National Institute on Aging (R01 AG022957), January 15, 2004-January 14, 2007. This research project investigates negative social exchanges among older adults as risk factors for subsequent health and mortality.

Short and long-term suicide risk factors, *Co-investigator*, National Institute of Mental Health (R03 MH070520), Mark Kaplan, PI, September 1, 2004-August 31, 2006. This study investigates the social and psychiatric factors that are immediate and distal predictors of later suicide completion.

The impact of the Oregon Health Plan on TANF Leavers' Ability to Care for the Families Health, *Co-investigator*, Agency for Healthcare Research and Quality (R01 HS11322), Karen M. Secombe, PI, September, 2001-August, 2004. The goal of this project is the examine the longitudinal effects of termination of welfare-based healthcare benefits on family health and healthcare coverage.

Longitudinal Study of Alcohol Use and Medical Care Utilization Among Older Adults, *Co-investigator*, Alcoholic Beverage Medical Research Foundation, Bentson H. McFarland, PI, January, 2002-December, 2003. The goal of this project is to examine the relationship between moderate alcohol consumption and health care utilization.

Depression and Health Behavior in Late Life, *Co-Investigator*, National Institute of Mental Health R03 MH59719-01A1 (R03 MH59719), Mark Kaplan, PI, December, 1999-December, 2001. The goal of this project is to examine whether depression increases unhealthy behaviors and decreases healthy behaviors among older adults.

Impact of Negative Social Exchanges in Later Life, *Co-investigator*, National Institute on Aging (R01 AG14130), Karen Rook, PI. September, 1998 – August, 2003. This project investigates the psychological and health consequences of positive social support and negative social interactions.

Negative Reactions to Assistance with Daily Functioning, *Principal Investigator*, National Institute on Aging Grant R03 AG15159-01(R03 AG15159), October, 1997-September, 1998. This project examined care recipient's negative reactions to caregiving assistance from a spouse, its predictors, and consequences.

Depression and Negative Perceptions of Help Among Disabled Older Adults, *Principal Investigator*, Faculty Development Award, Portland State University. July, 1997 – July, 1999. This project was designed to develop measures of negative reaction to care.

Dual-Earner Couples in the Sandwiched Generation: How they Maximize Work-Family Fit, *Statistician*, Alfred P. Sloan Foundation, Leslie Hammer & Margaret Neal, Co-PIs, January 1, 1997 - December 31, 1999. This project investigates the psychological and health effects for dual earner couples who care for children and aging parents.

Caregiver Health Effects Study (CHES), *Statistician*, National Institute of Mental Health, grant MH46015, Richard Schulz, PI. February, 1994-1996.

Coordinating Center for Resources for Enhancing Alzheimer's Caregiver Health (REACH), *Psychometrician*, National Institute on Aging grant AG 13305, Richard Schulz, PI. September, 1995-1996.

GENERAL RESEARCH INTERESTS

Receiving care among physically impaired older adults

Negative social interaction and social support among older adults

Health behaviors among older adults

Applied statistical analysis and measurement, especially applications of structural equation modeling

Longitudinal research design and analysis

PUBLICATIONS (Selected)

Newsom, J.T., Huguét, N., McCarthy, M.J., Ramage-Morin, P., Kaplan, M.S., Bernier, J., McFarland, B.H., & Oderkirk, J. (in press). Health behavior change following chronic illness in middle and late life. *Journals of Gerontology: Psychological Sciences*.

Ramage-Morin, P., Bernier, J., Newsom, J.T., Huguét, N., McFarland, B.H., & Kaplan, M.S. (in press). Do inactive Canadians in mid- to late life adopt leisure-time physical activity with the diagnosis of a vascular condition? *Health reports*.

Okun, M.A., August, K.A., Rook, K.S., & Newsom, J.T. (2010). Volunteering, Functional Limitations, and Mortality. *Social Science and Medicine*, 71, 1662-1668

Newsom, J.T., Mahan, T.L., Rook, K.S., & Krause, N. (2008). Stable negative social exchanges and health. *Health Psychology*, 27, 78-86.

Krause, N., Newsom, J.T., & Rook, K.S. (2008). Financial strain, negative social interaction, and self-rated health: Evidence from two nationwide longitudinal surveys. *Ageing and Society*, 28, 1001-1023.

Mavandadi, S., Rook, K.S., & Newsom, J.T. (2007). Positive and negative social exchanges and disability in later life: An investigation of trajectories of change. *Journal of Gerontology: Social Sciences*, 62B, S361-S370.

August, K.J., Rook, K.S., & Newsom, J.T. (2007). The joint effects of life stress and negative social exchanges on emotional distress. *Journals of Gerontology: Social Sciences*, 62B, S304-S314.

Mavandadi, S., Sorkin, D.H., Rook, K.S., & Newsom, J.T. (2007). Pain, positive and negative social exchanges, and depressive symptomatology in later life. *Journal of Aging and Health*, 19, 813-830.

Kaplan, M.S., McFarland, B.H., Huguét, N., & Newsom, J.T. (2007). Physical illness, functional limitations, and suicide risk: A population-based study, *American Journal of Orthopsychiatry*, 77, 56-60.

Secombe, K., Hoffman, K., Hartley, H., Newsom, J., Marchand, G. C., Albo, C., Gordon, C., Zaback, T., Lockwood, R., & Pope, C. (2007). The aftermath of Welfare Reform: Health, health insurance, and access to care among families leaving TANF in Oregon. *Journal of Family Issues*, 28, 151-181.

Secombe, K., Newsom, J.T., & Hoffman, K. (2006). Access to healthcare after welfare reform. *Inquiry*, 43, 167-179.

- Kaplan, M.S., McFarland, B.H., Huguet, N., & Newsom, J.T. (2006). Sooner Versus Later: Factors Associated with Temporal Sequencing of Suicide. *Suicide and Life-Threatening Behavior*, 36, 377-385.
- Newsom, J.T., Rook, K.S., Nishishiba, M., Sorkin, D., Mahan, T.L. (2005). Understanding the relative importance of positive and negative social exchanges: Examining specific domains and appraisals. *Journals of Gerontology: Psychological Sciences*, 60B, P304-P312.
- Newsom, J.T., McFarland, B.H., Kaplan, M.S., Huguet, N., & Zani, B. (2005). The health consciousness myth: Implications of the near independence of major health behaviors in the population. *Social Science & Medicine*, 60, 433-437.
- Hammer, L.B., Neal, M.B., Brockwood, K.J., Newsom, J.T., & Colton, C. (2005). A longitudinal study of the effects of dual-earner couples' utilization of family-friendly workplace supports on work and family outcomes. *Journal of Applied Psychology*, 90, 799-810.
- Newsom, J.T., Kaplan, M.A., Huguet, N., & McFarland, B.H. (2004). Health behaviors in a representative sample of older Canadians: Prevalences, reported change, motivation to change, and perceived barriers. *The Gerontologist*, 44, 193-205.
- Nagurney, A.J., Reich, J.W., & Newsom, J.T. (2004). Gender moderates the effects of independence and dependence desires during the social support process. *Psychology and Aging*, 19, 215-218.
- Kaplan, M.S., Huguet, N., Newsom, J.T., McFarland, B.H. (2004). Length of Residence and Obesity Among Hispanic Immigrants. *American Journal of Preventive Medicine*, 27, 323-26.
- Kaplan MS, McFarland BH, Newsom JT, Huguet N. (2004). Spending more, feeling worse: medical care expenditures and self rated health. *Journal of Epidemiology and Community Health*, 58, 529-530.
- Newsom, J.T., Nishishiba, M., Morgan, D.L., & Rook, K.S. (2003). The relative importance of three domains of positive and negative social exchanges: A longitudinal model with comparable measures. *Psychology and Aging*, 18, 746-754.
- Newsom, J.T., Prigerson, H.G., Reynolds, C.F., & Schulz, R. (2003). Investigating moderator hypotheses in aging research: Statistical, methodological, and conceptual difficulties with comparing separate regressions. *International Journal of Aging and Human Development*, 57, 199-150.
- Martire, L.M., Schulz, R., Wrosch, C., & Newsom, J.T. (2003). Perceptions and implications of received spousal care: Evidence from the Caregiver Health Effects Study. *Psychology and Aging*, 18, 593-601.
- Kaplan, M.S., Huguet, N., Newsom, J.T., McFarland, B.H., & Lindsay, J. (2003). Prevalence and correlates of overweight and obesity among older adults: Findings from the National Population Health Survey. *Journals of Gerontology: Medical Sciences*, 58A, 1018-1030.
- Kaplan, M.S., Huguet, N., Newsom, J.T., & McFarland, B.H. (2003). Characteristics of physically inactive older adults with arthritis: Results of a population-based study. *Preventive Medicine*, 37, 61-67.
- Newsom, J.T. (2002). A multilevel structural equation model for dyadic data. *Structural Equation Modeling*, 9, 431-447.
- McFarland, B., Bigelow, D., Zani, B., Newsom, J., & Kaplan, M. (2002). Complementary and alternative medicine use in Canada and the United States. *American Journal of Public Health*, 92, 1616-1618.
- Kaplan, M.S., Newsom, J.T., & McFarland, B.H. (2002). Older adults' contact with health practitioners: Is there an association with smoking practices? *Journals of Gerontology: Medical Sciences*, 57, M343-M346.
- Kaplan, M.S., Chang, C., Newsom, J.T., & McFarland, B.H. (2002). Acculturation status and hypertension among Asian immigrants in Canada. *Journal of Epidemiology and Community Health*, 56, 455-456.
- Kaplan, M. S., Newsom, J.T., McFarland, B.H., & Lu, L. (2001). Demographic and psychosocial correlates of physical activity in late life. *American Journal of Preventive Medicine*, 21, 306-312.
- Newsom, J.T. (1999). Another side to caregiving: Negative reactions to being helped. *Current Directions in Psychological Science*, 8, 183-187.
- Martire, L. M., Schulz, R., Mittelmark, M. B., & Newsom, J. T. (1999). Stability and change in older adults' social contact and social support: The Cardiovascular Health Study. *Journals of Gerontology: Series B-Psychological Sciences & Social Sciences*, 54, S302-S311.
- Newsom, J.T., & Schulz, R. (1998). Caregiving from the recipient's perspective: Negative reactions to being helped. *Health Psychology*, 17, 172-181.
- Gleason, P., Schulz, R., Smith, N., Newsom, J.T., Kroboth, P. E., Kroboth, F., & Psaty, B. (1998). Correlates and prevalence of benzodiazapine use in community-dwelling elderly. *Journal of General Internal Medicine*, 13, 243-250.
- Newsom, J.T., Bookwala, J., & Schulz, R. (1997). Social support measurement in group residences for older adults. *Journal of Mental Health & Aging*, 3, 47-66.
- Schulz, R., Newsom, J.T., Mittelmark, M, Burton, L., Hirsch, C., & Jackson, S. (1997). Health effects of caregiving: The Caregiver Health Effects Study. *Annals of Behavioral Medicine*, 19, 110-116

- Burton, L.C., Newsom, J.T., Schulz, R., Hirsch, C., & German, P. (1997). Preventive health behaviors among spousal caregivers. *Preventive Medicine, 26*, 162-169.
- Schulz, R., Newsom, J. T., Fleissner, K., deCamp, A. R., & Nieboer, A. P. (1997). The effects of bereavement after family caregiving. *Aging and Mental Health, 1*, 269-282.
- Prigerson, H.G., Bierhals, A.J., Kasl, S.V., Reynolds, C.F., Shear, M. K., Day, N., Beery, L.C., Newsom, J.T., & Jacobs, S. (1997). Traumatic grief as a risk factor for mental and physical morbidity. *American Journal of Psychiatry, 154*, 616-623.
- Beery, L.C., Prigerson, H.G., Bierhals, A.J., Santucci, L.M., Newsom, J.T., Maciejewski, P.K., Rapp, S. R., Fasiska, A., & Reynolds, C.F. (1997). Traumatic grief, depression, and caregiving in elderly spouses of the terminally ill. *Omega, 35*, 261-279.
- Newsom, J. T., Knapp, J. E., & Schulz, R. (1996). A longitudinal analysis of specific domains of personal control and depressive symptoms in patients with recurrent cancer. *Health Psychology, 15*, 323-331.
- Newsom, J. T., & Schulz, R. (1996). Social support as a mediator in the relation between functional status and quality of life in older adults. *Psychology and Aging, 11*, 34-44.
- Reich, J.W., Newsom, J.T., & Zautra, A.J. (1996). Health downturns and predictors of suicidal ideation: An application of the Baumeister model. *Suicide and Life Threatening Behavior, 26*, 282-291.
- Prigerson, H.G., Bierhals, A.J., Kasl, S.V., Reynolds, C.F., Shear, M.K., Newsom, J.T., & Jacobs, S. (1996). Complicated grief as a disorder distinct from bereavement-related depression and anxiety: a replication study. *American Journal of Psychiatry, 153*, 1484-1486.
- Prigerson, H.G., Shear, M.K., Newsom, J.T., Frank, E., Reynolds, C.F., III, Maciejewski, P.K., Houck, P.R., Bierhals, A.J., & Kupfer, D.J. (1996). Anxiety among widowed elders: Is it distinct from depression and grief? *Anxiety, 2*, 1-12.
- Zautra, A. J., Reich, J. W., & Newsom, J. T. (1995). Autonomy and sense of control among older adults: An examination of their effects on mental health. In L. Bond, S. Cutler, & A. Grams (Eds.), *Promoting successful and productive aging*, (pp. 153-170). Sage Publications: Newbury Park, CA.
- Cohen, S., Doyle, W. J., Skoner, D. P., Fireman, P., Gwaltney Jr., J. M., & Newsom, J. T. (1995). State and trait negative affect as predictors of objective and subjective symptoms of respiratory viral infections. *Journal of Personality and Social Psychology, 68*, 159-169.
- Prigerson, H.G., Maciejewski, P. K., Reynolds, C. F., Bierhals, A. J., Newsom, J. T., Frank, E., Miller, M., Doman, J., & Fasiczka, A. (1995). The Inventory of Complicated Grief: A scale to measure certain maladaptive symptoms of loss. *Psychiatry Research, 59*, 65-79.
- Cialdini, R. B., Trost, M. R., & Newsom, J. T. (1995). Preference for consistency: The development of a valid measure and the discovery of surprising behavioral implications. *Journal of Personality and Social Psychology, 69*, 318-328.
- Neuberg, S. L., & Newsom, J. T. (1993). Personal need for structure: Individual differences in the desire for simple structure. *Journal of Personality and Social Psychology, 65*, 113-131.
- West, S. G., Newsom, J. T., & Fenaughty, A. M. (1992). Publication trends in JPSP: Stability and change in the topics, methods, and theories across two decades. *Personality and Social Psychology Bulletin, 18*, 473-484.

BOOKS, CHAPTERS, AND INVITED PAPERS

- Newsom, J.T. (in press). Handbook of Advanced Multilevel Analysis: edited by Joop. J. Hox & J. Kyle Roberts. *American Statistician*.
- Newsom, J.T., Jones, R.N., & Hofer, S.M. (Eds.) (2012). *Longitudinal Data Analysis: A Practical Guide for Researchers in Aging, Health, and Social Science*. New York: Routledge.
- Newsom, J.T. (2012). Basic Longitudinal Analysis Approaches for Continuous and Categorical Variables. In J.T. Newsom, R.N. Jones, & S.M. Hofer, *Longitudinal Data Analysis: A Practical Guide for Researchers in Aging, Health, and Social Science*. New York: Routledge.
- Huguet, N., Cunningham, S.D., & Newsom, J.T. (2012). Existing Longitudinal Data Sets for the Study of Health and Social Aspects of Aging. In J.T. Newsom, R.N. Jones, & S.M. Hofer, *Longitudinal Data Analysis: A Practical Guide for Researchers in Aging, Health, and Social Science*. New York: Routledge.
- Newsom, J.T., & McQueen, A. (2007). Negative interaction and health. In K.S. Markides (Ed.), *Encyclopedia of Health and Aging* (pp. 411-413). Thousand Oaks, CA: Sage Publications.
- Schulz, R., & Newsom, J. (1996). Contemporary Psychology: APA Review of Books, *From cradle to grave: Longitudinal perspectives on development, 41*, 144.
- Newsom, J.T., Bookwala, J., & Schulz, R. (1997). Social support measurement in group residences for older adults. In J.A. Teresi, M.P. Lawton, D. Holmes, & M. Ory (Eds.), *Measurement in elderly chronic care populations*. Springer: New York.

PRESENTATIONS (Recent)

Newsom, J.T., Huguet, N., McCarthy, M., Kaplan, M., & McFarland, B.H. (November, 2009). *A wake-up call or just too late? Health behaviors changes after chronic illness*. Poster presented at the 62nd Annual Scientific Meeting of the Gerontological Association of America. Atlanta, GA.

Luhr, G.A., Newsom, J.T., Krause, N., & Rook, K.S. (November, 2008). *Negative Social Exchanges on Self-Rated Health: The Mediating Role of Health Behaviors*. Poster presented at the 61st Annual Scientific Meeting of the Gerontological Association of America. National Harbor, MD.

Rook, K.S., Newsom, J.T., & Krause, N. (November, 2007). *Negative Social Exchanges Differentially Predict Mortality among Older Men and Women*. Poster presented at the 60th Annual Scientific Meeting of the Gerontological Association of America. San Francisco, CA.

Mahan, T.L., Chapman, N., & Newsom, J.T. (November, 2006). *Perceptions of Control in Residents With Dementia Living in Secured LTC Facilities*. Poster presented at the 59th Annual Scientific Meeting of the Gerontological Association of America. Dallas, TX.

McQueen, A., Newsom, J.T., Rook, K.S., & Krause, N. (November, 2006). *A Change for the Worse: Negative Social Exchanges and Self-Rated Health*. Presented at the 59th Annual Scientific Meeting of the Gerontological Association of America. Dallas, TX.

McQueen, A., Newsom, J.T., & Rook, K.S. (November, 2005). *You're Making Me Sick: Effects of Negative Social Exchanges on Health*. Poster presented at the 58th Annual Scientific Meeting of the Gerontological Association of America. Orlando, FL.

Piazza, J., Rook, K.S., Charles, S.T., & Newsom, J.T. (November, 2006). *Mixed Blessings: The Relationship Between Social Ties and Affective Well-being Among Older Adults*. Paper presented at the 59th Annual Scientific Meeting of the Gerontological Association of America. Dallas, TX.

Mahan, T.L., Newsom, J.T., & Chapman, N. (November, 2005). *Moderating and Mediating Roles of Perceived Control in Long-Term Care Facilities*. Paper presented at the 58th Annual Scientific Meeting of the Gerontological Association of America. Orlando, FL.

August, K., Zettel, L., Rook, K.S., & Newsom, J.T. (November, 2005). *The Impact of Gender and Life Stress on Older Adults' Reactivity to Negative Social Exchanges*. Poster presented at the 58th Annual Scientific Meeting of the Gerontological Association of America. Orlando, FL.

Bonn, K., Huguet, N., & Newsom, J.T. (November, 2005). *Contact Between Older Americans and Non-Relative Network Members as a Predictor of Self-Reported Health*. Poster presented at the 58th Annual Scientific Meeting of the Gerontological Association of America. Orlando, FL.

Kaplan, M.S., McFarland, B., Huguet, N., & Newsom, J. (April, 2005). *Proximal and Distal Risk Factors in Suicide*. Presented at the 38th Annual Conference of the American Association of Suicidology, Broomfield, CO.

Newsom, J.T. (November, 2004). *Factors Influencing Care Recipient's Negative Reactions to Help with Daily Activities*. Paper presented at the 57th annual meeting of the Gerontological Society of America. Washington, D.C.

OTHER RESEARCH EXPERIENCE

- Research Associate*, Regional Research Institute, Portland State University. September, 1996-September, 1997.
Statistical analyst and methodological consultant.
- Research Associate*, University of Pittsburgh, University Center for Social and Urban Research. February 1, 1994 – September, 1996. Statistical analyst for the National Caregiver Health Effects Study (CHES) and Psychometrician for the Coordinating Center for Resources for Enhancing Alzheimer’s Caregiver Health (REACH).
- Research Assistant*, Department of Psychology, Arizona State University. September, 1992 - July, 1993. Data analyst and researcher for Life Events and Aging Project under the supervision of Alex Zautra, Ph.D. and John R. Reich, Ph.D.
- Research Assistant*, Department of Psychology, Arizona State University. September, 1990 - August, 1992. Data analyst and researcher under the supervision of Steven L. Neuberg, Ph.D.
- Research Assistant*, Department of Psychology, Arizona State University. January, 1990 - May, 1990. Research assistant duties for Mammography Compliance Project under the supervision of Leona S. Aiken and Stephen G. West.
- Research Assistant*, Department of Psychology, Arizona State University. September, 1989 - December, 1989.
Literature research under the supervision of Stephen G. West, Ph.D.

TEACHING EXPERIENCE

- Instructor*, USP 534 *Data Analysis I*, USP 554/654 *Data Analysis II* (graduate statistics sequence for the Public Administration and Urban Studies doctoral programs), USP 655 *Advanced Data Analysis: Structural Equation Modeling*, USP 656 *Advanced Data Analysis: Multilevel Regression*, Spring, 1999 - present.
- Instructor*, PSY 321 *Psychology Research Methods*. Department of Psychology, Portland State University. Spring 1997 and Fall 1997. Instructor,
- Instructor*, *Introductory Statistics*, Department of Psychology, Arizona State University. July - August, 1991.
- Instructor*, *Introductory Psychology*, Department of Psychology, Arizona State University. September - December, 1991.
- Teaching Assistant*, *Advanced Multivariate Analysis*, Department of Psychology, Arizona State University, September - December, 1992. Taught computer application of multivariate procedures for graduate level statistics course under the supervision of Leona S. Aiken, Ph.D.
- Teaching Assistant*, *Introductory Statistics*, Department of Psychology, Arizona State University. September, 1988 – May, 1989. Under the supervision of Stephen G. West, Ph.D., George Knight, Ph.D., Leona Aiken, Ph.D., and Austin Jones, Ph.D.
- Teaching Assistant*, *Developmental Psychology*, Department of Psychology, Arizona State University. June, 1989. Under the supervision of George Knight, Ph.D.