

**Allison J. Tracy***The Wellesley Centers for Women*

Wellesley College, 106 Central Street, Wellesley, MA 02481-8268

**Education**

- 5/95 - 5/98 **Pennsylvania State University**, University Park, PA. **Ph.D** Human Development & Family Studies. Special focus on developmental methodology and family-level processes. Mentor: Linda M. Collins *Minor: Statistics*.
- 8/92 - 5/95 **Pennsylvania State University**, University Park, PA. **M.S.** Human Development & Family Studies.
- 8/90 - 5/92 **Humboldt State University**, Arcata, CA. **B.A.** Psychology.

**Honors, Awards and Professional Service**

- 2014-present Ad-hoc Reviewer, Cultural Diversity and Ethnic Minority Psychology
- 2014 Grant Proposal Reviewer, Share Our Strength
- 2011, 2013 Grant Proposal Reviewer, Nellie Mae Education Foundation
- 2010 Grant Proposal Reviewer, WT Grant Foundation
- 2010-present Ad-hoc Reviewer, Journal of Research on Adolescence
- 2010-present Ad-hoc Reviewer, Journal of Traumatic Stress
- 2010-present Ad-hoc Reviewer, Sex Roles: A Journal of Research
- 2008-present Ad-hoc Reviewer, Developmental Psychology
- 2006-present Ad-hoc Reviewer, American Journal of Public Health
- 2005 Nan Mae Holstein Award for Pioneering Research, Wellesley Centers for Women
- 2003-present Ad-hoc Reviewer, Psychology of Women Quarterly
- 1999-present Member, Wellesley Centers for Women Working Papers Review Committee
- 1991-1992 Member of the National Dean's List, Honorary Award, Humboldt State University
- 1991-1992 Chapter Vice-president, PSI CHI National Honor Society, Humboldt State University
- 1990-1991 Presidential Scholar, Humboldt State University

**Professional Memberships**

- American Statistical Association, 2007-present
- Psychometric Society, 2008-2010
- American Sociological Association, 2002 – 2006
- American Psychological Association, 1994 – 2001

**Research Positions**

- 7/08 - present **Senior Research Scientist/ Senior Methodologist**, The Wellesley Centers for Women. Provide methodological and statistical consultation to researchers for the Center for Research on Women, The National Institute of Out-of-School Time (NIOST), and the Stone Center.
- 7/97 – 6/08 **Research Scientist/ Methodologist**, The Wellesley Centers for Women. Provide methodological and statistical consultation to researchers for the Center for Research on Women, The National Institute of Out-of-School Time (NIOST), and the Stone Center. Collaborative research projects include large and small scale studies, longitudinal studies, studies of multiple levels in a clustered sampling design, secondary data analysis, and evaluation projects. Conduct independent program of research on analytic techniques that allow for the discovery of heterogeneity of experience.
- 5/95 - 7/97 **Statistical Consultant/ Data Analyst**, Women's Studies Department, Pennsylvania State University. Propose and conduct analyses of complex models of change in women's menstrual cycles over the peri-menopausal period.
- 8/96 - 7/97 **Research Assistant**, The Center for the Study of Prevention Through Innovative

- Methodology, Pennsylvania State University. Conduct investigations into innovative research methodologies for examining growth processes over time.
- 8/94 - 7/97 **Research Assistant**, The Methodology Center, Pennsylvania State University. Conduct investigations into statistical approaches to examining growth processes over time. Test the performance of a new statistical program for estimating transitions in categorical latent variables.
- 5/93 - 8/94 **Research Assistant**, Agriculture and Extension Education Department, Pennsylvania State University. Assist in the development and implementation of a needs assessment for services for Puerto Rican youth in a nearby community.
- 8/92 - 5/93 **Research Assistant**, Human Development and Family Studies Department, Pennsylvania State University. Assist in the implementation of an intervention project for divorced women and their adolescent children.

### **Independent Statistical Consulting** (listed alphabetically)

Boston College, Lynch School of Education  
 Brown University Department of Education  
 ChildTrends, Washington, DC  
 Fenway Foundation  
 Institute on Family and Neighborhood Life, Clemson University  
 Institute of Human Development, University of California  
 The Lewin Group  
 Management Sciences for Health, Boston  
 McLean Hospital, Harvard Medical School Affiliate, Belmont, MA  
 PI Worldwide  
 Purdue University  
 Salem State College, Department of Psychology  
 Trauma Center, Boston University School of Medicine  
 Tufts University  
 University of California-Riverside, Department of Psychology  
 University of New Hampshire, Department of Sociology  
 Wellesley College, Department of Psychology  
 Williams College, Department of Psychology

### **Seminars and Workshops Offered**

- 2/05 – 6/05 **Structural Equation Modeling** (professional training). Wellesley College, Wellesley, MA.
- 7/04 – 5/08 **Methodology in the Social Sciences** (post-doctoral and professional training). Wellesley Centers for Women, Wellesley, MA.
- 5/04 – 7/04 **Hierarchical Linear Modeling** (professional training). Management Sciences for Health, Boston, MA.
- 9/95 – 12/95 **Measurement Issues in Human Development: Lab Section** (graduate level). Pennsylvania State University, University Park, PA.
- 1/95 – 5/95 **Measurement Issues in Human Development: Lab Section** (graduate level). Pennsylvania State University, University Park, PA.
- 9/94 – 12/94 **Research Design in Human Development: Lab Section** (graduate level). Pennsylvania State University, University Park, PA.

### **Peer-Reviewed Publications**

Grossman, J. M., Tracy, A. J., Charmaraman, L., Ceder, I., & Erkut, S. (2014). Protective effects of middle school comprehensive sex education with family involvement. *Journal of School Health, 84*(11), 739-747. doi: 10.1111/josh.12199

- Grossman, J. M., **Tracy, A. J.**, Richer, A., & Erkut, S. (2014). The role of extended family in teen sexual health. *Journal of Adolescent Research*. doi: 10.1177/0743558414546718
- Grossman, J. M., **Tracy, A. J.**, & Noonan, A. (2013). Adolescents' religious discordance with mothers: Is there a connection to sexual risk behavior during emerging adulthood? *Journal of Primary Prevention*, 34, 329-343. PMC3832128 NIHMSID: NIHMS513078
- Marshall, N. L., Robeson, W.W., **Tracy, A.J.**, Frye, A., & Roberts, J. (2013). Subsidized child care, maternal employment and access to quality, affordable child care. *Early Childhood Research Quarterly*, 28, 808-819.
- Erkut, S., Grossman, J. M., Frye, A., Ceder, I., Charmaraman, L., & **Tracy, A. J.** (2013). Can sex education delay early sexual debut? *Journal of Early Adolescence*, 33(4), 479-494. doi:10.1177/0272431612449386
- Noonan, A.E., **Tracy, A.J.**, & Grossman, J. (2012). Constructing profiles of religious agreement and disagreement between adolescents and mothers: A research note. *Review of Religious Research* 54(2), 239-254. doi: 10.1007/s13644-012-0053-6
- Alexander, P.C., Morris, E., **Tracy, A.**, & Frye, A. (2010). Stages of change and group treatment of batterers: A randomized clinical trial. *Violence and Victims*, 25(5), 571-587.
- Marshall, N.L. & **Tracy, A.J.** (2010). After the baby: Work-family conflict and working mothers' psychological health. *Family Relations*, 58(4), 380-391.
- Liang, B., **Tracy, A.J.**, Kenny, M.E., Brogan, D., Gatha, R. (2010). The relational health indices for youth: An examination of reliability and validity aspects. *Measurement and Evaluation in Counseling and Development*, 42(2), 255-274. doi: 10.1177/0748175609354596
- Tracy, A.J.**, Erkut, S., Porche, M.V., Kim, J., Charmaraman, L., Grossman, J.M., Ceder, I., & Vázquez Garcia, H. (2010). Measurement uncertainty in racial and ethnic identification among adolescents of mixed-ancestry: A latent variable approach. *Structural Equation Modeling*, 17(1), 110-133. NIHMSID 277208 PMC3050510
- Alexander, P.C, **Tracy, A.**, Radek, M., & Koverola, C. (2009). Predicting stages of change in battered women. *Journal of Interpersonal Violence*, 24(10), 1652-1672.
- Yates, T.M., **Tracy, A.J.**, & Luthar, S. (2008). Nonsuicidal self-injury among "privileged" youth: Longitudinal and cross-sectional approaches to developmental process. *Journal of Consulting and Clinical Psychology*, 76(1), 52-62.
- Schechter, E., **Tracy, A.J.**, Page, K.V., & Luong, G. (2008). Shall we marry? Legal marriage as a commitment event in same-sex relationships during the post-legalization period. *Journal of Homosexuality*, 54(4), 400-422.
- Liang, B., **Tracy, A.J.**, Kenny, M., & Brogan, D. (2008). Gender differences in the relational health of youth participating in a social competency program. *Journal of Community Psychology*, 36(4), 499-514.
- Liang, B., **Tracy, A.J.**, & Ting, D. (2007). The Relational Health Indices: Assessing men's and women's relationships. *Australian Community Psychologist*, 19, 35-52.
- Wink, P., Ciciolla, L., Dillon, M., & **Tracy, A.** (2007). Religiousness, spiritual seeking and personality: Findings from a longitudinal study. *Journal of Personality*, 75(5), 1051-1070.
- Liang, B., **Tracy, A.**, Kauh, T., Taylor, C., & Williams, L. (2006). Mentoring Asian and Euro-American college women. *Journal of Multicultural Counseling and Development*, 34, 143-154.
- Tolman, D.L., Impett, E.A., **Tracy, A.J.**, & Michael, A. (2006). Looking good, sounding good: Femininity ideology and adolescent girls' mental health. *Psychology of Women Quarterly*, 30, 85-95.
- Perry, C., LeMay, N., Rodway, G., **Tracy, A.**, & Galer, J. (2005). Validating a work group climate assessment tool for improving the performance of public health organizations. *Human Resources for Health*, 3(10). Available at <http://www.human-resources-health.com/content/3/1/10>. Published online 2005 October 13. doi: 0.1186/1478-4491-3-10. PMC1276808
- Cramer, P. & **Tracy, A.** (2004). The pathway from child personality to adult adjustment: The road is not straight. *Journal of Research in Personality*, 39, 369-394.

- Taylor C.A., Liang B., **Tracy A.J.**, Williams L.M., Seigle P. (2002) Gender differences in middle school adjustment, physical fighting, and social skills: Evaluation of a social competency program. *Journal of Primary Prevention*, 23(2), 259-272.
- Tracy, A. J.** & Erkut, S. (2002). Gender and race patterns in the pathways from sports participation to self-esteem. *Sociological Perspectives*, 45(4), 445-466. PMC3051198
- Erkut, S., & **Tracy, A. J.** (2002). Predicting adolescent self-esteem from participation in school sports among Latino subgroups. *Hispanic Journal of Behavioral Sciences*, 24(4), 409-429. PMC3048356
- Liang, B., **Tracy, A.**, & Taylor, C. (2002). Mentoring college-aged women: A relational approach. *American Journal of Community Psychology*, 30(2), 271-288.
- Liang, B., **Tracy, A.**, Taylor, C., Williams, L., Jordan, J., & Miller, J. B. (2001). The Relational Health Indices: A study of women's relationships. *Psychology of Women's Quarterly*, 26, 25-35.
- Tracy, A.J.** (2000). Agreement among stepfamily members: A critique of the available modeling approaches. *Journal of Divorce and Remarriage*, 34(1), 95-110.
- Collins, L.M., & **Tracy, A.J.** (1997). Estimation in complex latent transition models with extreme data sparseness. *Kwantitatieve Methoden*, 55, 57-71.

### **Edited Chapters**

- Tracy, A. J.** & Erkut, S. (2007). "If you let me play...": Does high school physical activity reduce urban young women's sexual risks? In B. J. Leadbeater & N. Way (eds.), *Urban girls revisited: Building strengths*. New York, NY: NYU Press.
- Limber, S.P., Nation, M., **Tracy, A.J.**, Melton, G.B., & Flerx, V. (2004). Implementation of the Olweus Bullying Prevention programme in the Southeastern United States. In Smith, P.K., Pepler, D., & Rigby, K. (eds.), *Bullying in Schools: How Successful Can Interventions Be?* Cambridge, UK: Cambridge University Press.

### **Working Papers and Technical Reports**

- Tracy, A.**, Surr, W., & Richer, A. (2012). Findings from the APT validation study. (#FD208). Wellesley, MA: Wellesley Centers for Women.
- Surr, W.B., **Tracy, A.J.**, Richer, A., & Stavsky, S (2012). Testing of the SAYO Youth Survey (SAYO-Y): Summary of FY2009 Psychometric Testing and Psychometric Testing Results of the SAYO-Youth and SAYO-Staff Survey with Teens. Report made for the Massachusetts Department of Elementary and Secondary Education 21<sup>st</sup> Century Community Learning Center Program and the United Way of Southeastern Pennsylvania.
- Tracy, A.J.**, & Erkut, S. (2010). Biracial/ethnic adolescents' behavioral health profiles: Implications of specific combinations. (#433). Wellesley, MA: Wellesley Centers for Women.
- Pappano, L. & **Tracy, A.J.** (2009). *Ticket office sexism: The gender gap in pricing for NCAA Division I basketball*. (#432). Wellesley, MA: Wellesley Centers for Women.
- McGroder, S.M. & **Tracy, A.J.** (2009). Profiles of Romantic and Sexual Relationships in Emerging Adulthood: A National Study. Washington DC: U.S. Department of Health and Human Services, Office of the Assistant Secretary for Planning and Evaluation and the Family and Youth Services Bureau.
- Robeson, W.W., Frye, A., & **Tracy, A.J.** (2009). Welfare reform, subsidized child care, and family and child well-being.
- Erkut, S. & **Tracy, A.J.** (2005). Physical activity as a protective factor for sexual outcomes. Final report to the National Institutes of Health (NICHD).
- Schechter, E., **Tracy, A.J.**, Page, K.V., & Luong, G. (2005). "Doing marriage": Same-sex relationship dynamics in the post-legalization period. In Same-Sex Marriage Study Group (Ed.), *What I Did for Love, or Benefits, or...: Same-Sex Marriage in Massachusetts* (#424). Wellesley, MA: Wellesley Centers for Women.
- Schechter, E., **Tracy, A.J.**, Page, K.V., & Luong, G. (2005). *Shall We Marry? Legal Marriage as a Commitment Event in Same-Sex Relationships During the Post-Legalization Period* (#422).

Wellesley, MA: Wellesley Centers for Women.

- Tracy, A.J.** & Sorsoli, C.L. (2004). *A Quantitative Analysis Method for Feminist Researchers* (#414). Wellesley, MA: Wellesley Centers for Women.
- Porche, M.V., Fhagen-Smith, P., Kim, J.H., Vázquez Garcia, H.A., **Tracy, A.**, & Erkut, S. (2004). *Complexities in Researching Mixed Ancestry Adolescents: A Preliminary Study* (#418). Wellesley, MA: Wellesley Centers for Women.
- Erkut, S. & **Tracy, A.J.** (2003). *Mixed Ancestry Adolescents* (#409). Wellesley, MA: Wellesley Centers for Women.
- Tracy, A.J.** & Erkut, S. (2000). *Protective Effects of Sports Participation on Girls' Sexual Behavior* (#301). Wellesley, MA: Wellesley Centers for Women.
- Liang, B., Taylor, C., Williams, L., **Tracy, A.**, Jordan, J., & Baker Miller, J. (1999). *Relational Health Indices: An Exploratory Study* (#293). Wellesley, MA: Wellesley Centers for Women.
- Sayer, A.G. & **Tracy, A.J.** (1998). *Using Developmental Processes to Predict Substance Use Outcomes* (#98-25). The Methodology Center, Pennsylvania State University: State College, PA.
- Tracy, A.J.**, Collins, L.M., & Graham, J.W. (1997). *Exposure to Adult Substance Use as a Risk Factor in Adolescent Substance Use Onset: Part I* (#97-13). The Methodology Center, Pennsylvania State University: State College, PA.
- Tracy, A.J.** & Sayer, A.G. (1997). *Modeling Trajectories of Ego Resiliency Using Hierarchical Linear Models* (#97-12). The Methodology Center, Pennsylvania State University: State College, PA.

### **Papers Presented at Professional Meetings**

- Tracy, A.** & Pappano, L. (2014). *Do university athletes get a boost when job hunting?* International Working Group World Conference on Women and Sport, Helsinki, Finland.
- Grossman, J.M., **Tracy, A.J.**, Charmaraman, L., Ceder, I., & Erkut, S. (2013). Family homework activities in a comprehensive sex education program delay teen sex for boys. Paper presented at the 2013 conference of the American Public Health Association, Boston, MA.
- Tracy, A.** (2011). *SES in emerging adulthood: Implications for health behaviors.* Paper presented at the 10th International Conference on Health Economics, Management, and Policy, Athens, Greece.
- Charmaraman, L., Grossman, J. M., Erkut, S., Ceder, I., & **Tracy, A.** (2011). *Racial-ethnic centrality: Variation in self-perception across multiracial adolescent groups.* Presented at the Society for Research on Child Development. Montreal, Canada.
- Pappano, L. & **Tracy, A.** (2010). *Ticket office sexism: The gender gap in pricing for NCAA Division I college basketball.* International Working Group World Conference on Women and Sport, Sydney, Australia.
- Marshall, N.L., Robeson, W.W., **Tracy, A.J.** & Roberts, J. (2009). Welfare reform, subsidized child care, and family and child well-being. Paper presented at the annual meetings of the American Sociological Association, San Francisco, CA.
- Tracy, A.J.**, Erkut, S., Porche, M.V., Kim, J., Charmaraman, L., Grossman, J.M., Ceder, I., & Vázquez Garcia, H. (2008). Measurement uncertainty in racial and ethnic identification among adolescents of mixed-ancestry: A latent variable approach. Paper presented at the annual meeting of the Society for Research on Adolescence.
- Ceder, I., Charmaraman, L., Erkut, S., Grossman, J.M., Kim, J., Porche, M.V., **Tracy, A.J.**, Vázquez Garcia, H. (2008). An exploratory study of mixed-ancestry adolescents' social adjustment strengths and challenges: A contextual approach. Paper presented at the annual meeting of the American Psychological Association.
- Tracy, A.J.** & Erkut, S. (2007). Modeling ambiguity in racial and ethnic identification among mixed ancestry adolescents: Two latent variable approaches. Paper presented at the annual meeting of the American Psychological Association.
- Hopper, J.W., **Tracy, A.J.**, & Lukas, S.E. (2007). Development of a model-based self-report measure of marijuana's subjective effects: A preliminary web-based study. Poster presented at the meeting of the College on Problems of Drug Dependence.

- Marshall, N.L. & **Tracy, A.J.** (2006). Work Organization and Employed Women's Post-Partum Health. Paper presented at the meeting of the American Sociological Association, Montreal, CA.
- Schechter, E., **Tracy, A.J.**, Page, K., & Luong, G. (2005). "Doing marriage": Same-sex relationship dynamics in the post-legalization period. Paper presented at the meeting of the American Psychological Association.
- Tracy, A.J.** & Erkut, S. (2004). Review of the Recent Empirical Literature on Mixed-Ancestry Youth. Paper presented at the annual meeting of the American Psychological Association.
- Tracy, A.J.** & Sorsoli, C.L. (2004). Latent variable mixture modeling as a new tool for feminist researchers: A conceptual overview. Presented at the meeting of the International Sociological Association, Amsterdam.
- Tracy, A.J.** & Erkut, S. (2004). On the right track: Can girls' physical activity in high school predict safer sexual outcomes in young adulthood? Paper presented at the Brown Bag Lecture Series, Murray Research Center, Radcliffe Institute for Advanced Study, Harvard University.
- Tracy, A.J.** & Erkut, S. (2003). The role of cultural context in the effect of physical activity on girls' sexual risk taking over time. Paper presented at the meeting of the Society for Research on Child Development.
- Tracy, A.J.** & Erkut, S. (2003). Physical activity and girls' sexual outcomes: The role of race/ethnicity and geography. Paper presented at the meeting of the Society for Research on Adolescence.
- Tracy, A.J.** & Erkut, S. (2002). Physical activity and girls' sexual outcomes: The role of race/ethnicity and geography. Paper presented at the Add Health Users Workshop.
- Tracy, A.J.** & Erkut, S. (2002). Race and gender patterns in the paths from sports to self-esteem. Paper presented at the meeting of the Society for Research on Adolescence.
- Erkut, S. & **Tracy, A.J.** (2001). The link between high school sports and girls' sexual behavior: The role of race/ethnicity and residential context. Paper presented at the meeting of the Society for Research on Child Development.
- Tracy, A.J.** & Erkut, S. (2001). Sports participation and self-esteem: Exploring process within gender and racial/ethnic groups. Paper presented at the Add Health Users Workshop.
- Tracy, A.J.** (2000). Girls' sports participation and lower risky sexual behavior: Exploring the hows and whys. Paper presented at the Add Health Users Workshop.
- Erkut, S. & **Tracy, A.J.** (1999). Protective effects of sports participation on girls' sexual behavior. Paper presented at the meeting of the American Psychological Association.

### **Completed Research Support**

- Parental Choice: Research Evidence from Two National Datasets.* Role: Methodologist. Administration for Children and Families DHHS. 90YE0120. Marshall (PI). 09/09-02/11.
- Physical Activity Over Time: Health Outcomes of Elementary School Children.* Role: Methodologist. National Institutes of Health, NIH, NICHD. 1R03HD052710-01A2 Hall (PI). 2/01/08 - 7/31/10.
- Adolescent Religiosity, Family Relationships, and Risky Sexual Behaviors.* Role: PI on subaward. National Institutes of Health, National Institute of Child Health and Human Development with Salem State College. 1R03HD057572-01 Noonan (PI). 8/01/08 - 7/31/10.
- Supporting 21st Century Community Learning Center Program Assessment and Continuous Improvement to promote Healthy Youth Development & Student Achievement.* Role: Methodologist. Massachusetts Department of Elementary and Secondary Education. RFR 10SSSKR1E. Gannett (PI). 9/1/09 - 6/30/10.
- Postdoctoral Behavioral Research Training on At-Risk Youth.* Role: Preceptor/Mentor. National Institutes of Health, NICHD. 5T32 HD041917. Erkut (PI). 5/01/04 - 4/30/10.
- Building an Outcomes Evaluation System Phase III: Developing Youth and Family Surveys.* Role: Methodologist. Massachusetts Department of Education. 77200WellesleyCol328. Gannett (PI). 11/1/06 - 6/30/09.
- Adolescent Mixed Ancestry Identity.* Role: Co-Investigator. National Institutes of Health, NICHD. HD049697. Erkut (PI). 5/12/06 - 4/30/09.

- Massachusetts Early Care and Education and School Readiness Study*. Role: Methodologist. Administration for Children and Families DHHS. 90YE0079. Robeson (PI). 9/30/04 - 9/29/08.
- Technical Assistance to Get Real, Middle School Comprehensive Sex Education Curriculum*. Role: Methodologist. Planned Parenthood League of Massachusetts. Erkut (PI). 6/1/07 - 8/31/08.
- Impact of Work Organization on Women's Postpartum Health*. Role: Methodologist. National Institute of Occupational Safety and Health, CDC. 1R03 OH008351 -01. N. Marshall (PI). 8/1/05 - 7/31/07.
- After-School / Other Out-of-School Time Program Evaluation Phase II*. Role: Methodologist. Commonwealth of Massachusetts, Department of Education. SCDOE72004217503. Gannett (PI). 7/01/03 - 6/30/06.
- NICHD Study of Early Child Care*. Role: Methodologist, Wellesley College site. National Institutes of Health, NICHD. N. L. Marshall (Co-PI). 8/21/00 - 6/30/05.
- Sports as Protective of Girls' High-Risk Sexual Behaviors*. Role: Co-Principal Investigator. National Institutes of Health, NICHD. S. Erkut (PI). 6/01/00 - 5/31/05.
- Evaluation of the Jacksonville Children's Commission*. Role: Methodologist. Communities in Schools and Jacksonville Children's Commission. F. Marx, E. Gannett (PI). 6/1/01 - 2/10/05.
- Family Income, Infant Child Care and Child Development*. Role: Methodologist. Administration for Children and Families DHHS. W. W. Robeson (PI). 9/30/01- 9/29/04.
- Navy BUPERS Family Study*. Role: Methodologist. United States Navy. L. Williams (PI). 10/1/01 - 9/30/04.
- Television Consumption and Adolescent Sexual Activity*. Role: Methodologist. National Institutes of Health (NICHD). R01 HD38393. D. Tolman (PI). 9/22/00 - 8/31/04.
- Femininity Ideology and the Risk of Unintended Pregnancy*. Role: Methodologist. National Institutes of Health, NICHD. D. Tolman (PI). 10/01/97 - 8/31/0.
- Employment, Work Conditions and Health Among Older Workers*. Role: Methodologist. National Institutes of Health, NIA. N. L. Marshall, A. Noonan (PI). 9/30/01 - 9/29/03.

### **Methodological Training Received**

- Many-Facet Rasch Modeling (2011)**. A 5-week online proctored workshop featuring the FACETS software package. Multi-faceted Rasch models (MFRM) allow the analysis of inter-rater reliability, even in cases with few raters. The strength of MFRM lies in the identification of rater bias and rater/item interaction bias. This provides person-context interactions that could otherwise only be obtained via qualitative analysis. *Instructor: Mike Linacre, Ph.D*
- Power Analysis Using PASS (2010)**. A 5-week online proctored workshop featuring the PASS software package for the analysis of statistical power and sample size selection, given a wide variety of analysis models. *Instructor: Thomas Ryan, Ph.D*
- Mplus Short Courses (2009, 2008, 2003, 2002, 2001)**. A series of four full-day training courses for the Mplus statistical package for latent variable modeling in a general modeling framework. The topics covered included the modeling of measurement error, factor analytic models with latent variables, structural equation modeling, and latent variable modeling with finite mixtures. Subsequent trainings focus on new developments and models. *Instructors: Bengt Muthén, Ph.D & Linda Muthén, Ph.D*
- LISREL Workshop (2005)**. An overview and hands-on training for the LISREL statistical program for structural equation modeling. *Instructors: Karl Jöreskog, Ph.D, Ken Bollen, Ph.D*
- Latent Transition Analysis Workshop (1998)**. An overview and hands-on training for the LTA statistical program for latent transition analysis. *Instructor: Linda M. Collins, Ph.D*
- HLM Workshop (1996)**. An overview and hand-on training for the HLM statistical package for hierarchical linear modeling. *Instructor: Stephen Raudenbush, Ph.D*
- Special Issues in Biobehavioral Health: Time-series Analysis (1996)**. An overview and examples of how time-series analyses can be conducted using structural equations modeling packages. *Instructor: Peter Molenaar, Ph.D*

- Special Issues in Human Developmental Methodology: Cluster Analysis (1996). An in-depth discussion of clustering and categorizing techniques as well as a hands-on, skills-based component, designed to teach cluster analysis using SAS, SPSS, and BMDP statistical packages. *Instructor: Craig Edelbrock, Ph.D*
- Special Issues in Biobehavioral Health: Structural Equations Modeling (1995). An in-depth discussion and examples of the use of structural equations modeling, using the LISREL program. *Instructor: Peter Molenaar, Ph.D*
- Special Issues in Human Developmental Methodology: Computational Statistics (1995). An overview and comparison of a number of multivariate computational techniques such as polynomial regression with orthogonal coefficients, canonical correlation, and nonlinear regression, illustrated by empirical examples of how these analyses are conducted in SAS. *Instructor: Michael Rovine, Ph.D*
- Data Imputation with Bayesian Techniques (1995). An overview of current techniques for missing data imputation and a discussion of an imputation technique that makes use of Bayesian-based data augmentation to arrive at proper estimates of standard errors. *Instructor: Joseph Schafer, Ph.D*
- AMOS Workshop (1994). An overview and hands-on training for the AMOS statistical package for structural equations modeling. *Instructor: James Arbuckle, Ph.D*
- Analysis of Discrete Data (1994). A discussion and examples of analysis with categorical variables, such as loglinear analysis, logistic regression, and logit models. *Instructor: William Harkness, Ph.D*
- Measurement Issues in Human Development (1994). An overview of measurement theory in developmental research as well as skills-based computer lab sessions. In addition to completing this course, I taught the computer lab sessions covering reliability assessment, generalizability theory, exploratory factor analysis, and latent transition analysis. *Instructor: Linda Collins, Ph.D*
- Analysis of Variance and Design (1993). A discussion of the mathematical and statistical basis for analysis of variance as well as design issues inherent to this technique. *Instructor: William Harkness, Ph.D*
- Statistical Issues in Human Development (1993). An in-depth discussion of GLM-based analyses in developmental research. *Instructor: Alexander vonEye, Ph.D*
- Research Design in Human Development (1992). An overview and discussion of design issues in longitudinal research. In addition to completing this course, I taught the computer lab session on growth curve analysis, power analysis, and hierarchical linear modeling. *Instructors: Warner Schaie, Ph.D; Aline Sayer, Ph.D*
- Research Methods in Human Development (1992). An overview of design, measurement, and analytic issues common in developmental research. *Instructor: Paul Games, Ph.D*
- Statistical Packages (1991). An overview and specific examples of GLM-based analyses using SAS, SPSS, BMDP, and Minitab statistical packages. *Instructor: Patricia Buchanan, Ph.D*
- Regression Methods (1991). A discussion of the mathematical and statistical bases for regression analysis. *Instructor: Patricia Buchanan, Ph.D*
- Applied Multivariate Analysis (1990). An overview of the mathematical and statistical basis for multivariate statistical techniques such as cluster analysis, exploratory factor analysis, discriminant analysis, and multidimensional scaling. *Instructor: C.R. Rao, Ph.D*