

## Paul D. Allison

### Curriculum Vitae

#### University of Pennsylvania Address:

Department of Sociology  
University of Pennsylvania  
3718 Locust Walk  
Philadelphia, PA 19104-6299  
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#### Statistical Horizons Address:

P.O. Box 282  
Ardmore, PA 19003  
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#### Education:

A.B. St. Louis University, 1970 (magna cum laude)  
M.S. University of Wisconsin at Madison, 1973  
Ph.D. University of Wisconsin at Madison, 1976

#### Positions:

2005- President, Statistical Horizons LLC  
2018- Professor Emeritus, University of Pennsylvania  
2003-07 Chair, Department of Sociology, University of Pennsylvania  
1987-2018 Professor, Department of Sociology, University of Pennsylvania  
1981-87 Associate Professor, Department of Sociology, University of Pennsylvania  
1980-81 Associate Professor, Department of Sociology, Cornell University  
1976-80 Assistant Professor, Department of Sociology, Cornell University  
1975-76 Lecturer, Department of Sociology, State University of New York at Stony Brook

#### Awards:

1977-78 Social Science Research Council Postdoctoral Fellow, University of Chicago.  
1986-87 John Simon Guggenheim Memorial Foundation Fellowship.  
1986- Sociological Research Association, Elected Member.  
2001 Lazarsfeld Award for Distinguished Contributions to Sociological Methodology.  
2010- Fellow of the American Statistical Association.

#### Books:

2014 *Event History and Survival Analysis*. 2<sup>nd</sup> Edition. Thousand Oaks, CA: Sage Publications  
2012 *Logistic Regression Using SAS: Theory and Application*. 2<sup>nd</sup> Edition. Cary, NC: SAS Institute  
2010 *Survival Analysis Using SAS: A Practical Guide*. 2<sup>nd</sup> Edition. Cary, N.C.: SAS Institute.  
2009 *Fixed Effects Regression Models*. Thousand Oaks, CA: Sage Publications.  
2005 *Fixed Effects Regression Methods for Longitudinal Data Using SAS*. Cary, NC: SAS Institute.  
2001 *Missing Data*. Thousand Oaks, CA: Sage Publications  
1999 *Logistic Regression Using SAS: Theory and Application*. Cary, NC: SAS Institute.  
1999 *Multiple Regression: A Primer*. Thousand Oaks, CA: Pine Forge Press.  
1995 *Survival Analysis Using the SAS System: A Practical Guide*. Cary, N.C.: SAS Institute.  
1984 *Event History Analysis*. Beverly Hills: Sage Publications.  
1980 *Processes of Stratification in Science*. New York: Arno Press.

## Articles and Chapters:

- Allison, Paul D. (2019) "Asymmetric fixed effects models for panel data." *Socius: Sociological Research for a Dynamic World* 5: 1-12. <https://doi.org/10.1177/2378023119826441>
- Moral-Benito, Enrique, Paul D. Allison and Richard Williams (2018) "Dynamic panel data modelling using maximum likelihood: an alternative to Arellano-Bond." *Applied Economics* 51: 2221-2232. <https://doi.org/10.1080/00036846.2018.1540854>
- Williams, Richard, Paul D. Allison and Enrique Moral-Benito (2018) "xtdpdml: linear dynamic panel-data estimation using maximum likelihood and structural equation modeling." *The Stata Journal* 18: 293–326.
- Beardslee, Jordan, Edward Mulvey, Carol Schubert, Paul Allison, Aryn Infante, and Dustin Pardini (2018) "Gun and non-gun related violence exposure and risk for subsequent gun carrying among male juvenile offenders." *Journal of the American Academy of Child & Adolescent Psychiatry* 57: 274-279.
- Allison, Paul D., Richard Williams and Enrique Moral-Benito (2017) "Maximum likelihood for cross-lagged panel models with fixed effects." *Socius: Sociological Research for a Dynamic World* 3: 1-17.
- England, Paula, Paul D. Allison and Liana C. Sayer (2016) "Is your spouse more likely to divorce you if you are the older partner?" *Journal of Marriage and the Family* 78: 1184-1194.
- Alemao, Evo, Seongjung Joo, Hugh Kawabata, Maiwenn J. Al, Paul D. Allison, Maureen P. M. H. Rutten-Van Mólken, Michelle L. Frits, Christine K. Iannaccone, Nancy A. Shadick and Michael E. Weinblatt (2016) "Effects of achieving target measures in rheumatoid arthritis on functional status, quality of life and resource utilization: Analysis of clinical practice data." *Arthritis Care & Research* 68: 308-317.
- Wiebe, Douglas J., Theresa S. Richmond, Wensheng Guo, Paul D. Allison, Judd E. Hollander, Michael L. Nance, Charles C. Branas (2016) "Mapping activity patterns to quantify risk of violent assault in urban environments." *Epidemiology* 27: 32-41.
- England, Paula, Paul D. Allison and Liana C. Sayer (2014) "When one spouse has an affair, who is more likely to leave?" *Demographic Research* 30: 535-546.
- Wiebe, Douglas J., Therese S. Richmond, Jed Poster, Wenshang Guo, Paul D. Allison, Charles C. Branas (2014) "Adolescents' fears of violence in transit environments during daily activities." *Security Journal* 27: 226-241. Reprinted in *Safety and Security in Transit Environments: An Interdisciplinary Approach* (2015), V. Ceccato and A. Newton (Eds.), Hampshire: Palgrave Macmillan.
- Cattani, Gino, Simone Ferriani, and Paul D. Allison (2014) "Insiders, outsiders and the struggle for consecration in cultural fields: A core-periphery perspective." *American Sociological Review* 79: 258-281.
- Muzaffar, Saether, Kristin Cummings, Gerald Hobbs, Paul D. Allison, and Kathleen Kreiss (2013) "Factors associated with fatal mining injuries among contractors and operators." *Journal of Occupational and Environmental Medicine* 55: 1338-1344
- Wiebe, Douglas J., Wenshang Guo, Paul D. Allison, Elijah Anderson, Therese Richmond, Charles C. Branas (2013) "Fears of violence during morning travel to school." *Journal of Adolescent Health* 53: 54-61.
- Masterson Creber, Ruth M., Paul D. Allison and Barbara J. Riegel (2013) "Overall perceived health predicts risk of hospitalizations and death in adults with heart failure: A prospective longitudinal study." *International Journal of Nursing Studies* 60: 671-677.
- Olfson, Mark, Cecilia Huang, Tobias Gerhard, Almut G. Winterstein, Stephen Crystal, Paul D. Allison, Steven C. Marcus (2012) "Stimulants and cardiovascular events in youth with

- attention-deficit/hyperactivity disorder.” *Journal of the American Academy of Child and Adolescent Psychiatry* 51: 147-156.
- Park, Jung Min, Angela Fertig and Paul D. Allison (2011) “Physical and mental health, cognitive development, and healthcare use by housing status of low-income young children in 20 American cities: A prospective cohort study.” *American Journal of Public Health* 101(Suppl 1): S255-261.
- Sayer, Liana C., Paula England, Paul D. Allison and Nicole Kangas (2011) “She left, he left: How employment and satisfaction affect men’s and women’s decisions to leave marriages.” *American Journal of Sociology* 116(6):1982-2018.
- Received the 2012 Rosabeth Moss Kanter Award for Excellence in Work-Family Research
  - Received the 2013 Best Paper Award given by the Family Section of the American Sociological Association.
- Brown, Randall, Paul D. Allison and F. Javier Nieto (2011) “Impact of jail sanctions during drug court participation upon substance abuse treatment completion.” *Addiction* 106: 135-142.
- Allison, Paul D. (2010) “Missing data.” Pp. 631-657 in *Handbook of Survey Research*, edited by James D. Wright and Peter V. Marsden. Bingley, UK: Emerald Group Publishing Ltd.
- Allison, Paul D. (2010) “Survival analysis.” Pp. 413-425 in *The Reviewer’s Guide to Quantitative Methods in the Social Sciences*, edited by Gregory R. Hancock and Ralph O. Mueller. New York: Routledge.
- Allison, Paul D. (2009) “Missing data.” Pp. 72-89 in *The SAGE Handbook of Quantitative Methods in Psychology*, edited by Roger E. Millsap and Alberto Maydeu-Olivares. Thousand Oaks, CA: Sage Publications Inc.
- Christakis, Nicholas A. and Paul D. Allison (2009) “Inter-spousal mortality effects: Caregiver burden across the spectrum of disease.” Pp. 455-477 in *Health at Older Ages: The Causes and Consequences of Declining Disability Among the Elderly*, edited by David Cutler and David A. Wise. Chicago: University of Chicago Press.
- Levanon, Asaf, Paula England and Paul D. Allison (2009) “Occupational feminization and pay: assessing causal dynamics using 1950-2000 Census data.” *Social Forces* 88: 865-892.
- England, Paula, Paul Allison, Su Li, Noah Mark, Jennifer Thompson, Michelle Budig, Han Sun (2007) “Why are some academic fields tipping toward female? The sex composition of U.S. fields of doctoral degree receipt, 1971-2002.” *Sociology of Education* 80: 23-42.
- England, Paula, Paul D. Allison and Yuxiao Wu (2007) “Does bad pay cause occupations to feminize, does feminization reduce pay, and how can we tell with longitudinal data?” *Social Science Research* 36: 1237-1256.
- Cole, Steven R, Haitao Chu, Paul D. Allison and Stephen Gange (2006) “Combined analysis of retrospective and prospective occurrences in cohort studies: HIV-1 serostatus and incident pneumonia.” *International Journal of Epidemiology* 35: 1442-46.
- Christakis, Nicholas and Paul D. Allison (2006) “Mortality after the Hospitalization of a Spouse.” *New England Journal of Medicine* 354: 719-730.
- Allison, Paul D. and Nicholas Christakis (2006) “Fixed effects methods for the analysis of nonrepeated events.” Pp. 155-172 in Ross M. Stolzenberg (ed.), *Sociological Methodology 2006*.
- Allison, Paul D. (2004) “Event history analysis.” Pp. 369-386 in Alan E. Bryman and Melissa Hardy (eds.), *Handbook of Data Analysis*. Thousand Oaks, CA: Sage.
- Cole, Steven R., Paul D. Allison and C. V. Ananth (2004) “Estimation of cumulative odds ratios.” *Annals of Epidemiology*. 14: 172-178.

- Allison, Paul D. (2004) "Convergence problems in logistic regression." Pp. 247-262 in Micah Altman, Jeff Gill, and Michael McDonald (eds.) *Numerical Issues in Statistical Computing for the Social Scientist*. New York: Wiley-Interscience.
- Allison, Paul D. (2003) "Missing data techniques for structural equation models." *Journal of Abnormal Psychology* 112: 545-557.
- Smith, Kenwyn K., David L. Eldridge, Dana S. Kaminstein, and Paul D. Allison (2002) "Corporate health revisited: An update on illness and organizational dynamics." *Journal of Applied Behavioral Science*, 38: 177 - 190.
- Keane, Anne, Arlene D. Houldin, Paul D. Allison, Christopher Jepson, Justine Shults, Isaac F. Nuamah, Ann Marie Walsh Brennan, Barbara J. Lowery and Ruth McCorkle. (2002) "Factors associated with distress over time in urban residential fire survivors." *Journal of Nursing Scholarship*, 34: 11-17.
- Allison, Paul D. and Richard Waterman (2002) "Fixed effects negative binomial regression models." In Ross M. Stolzenberg (ed.), *Sociological Methodology 2002*. Oxford: Basil Blackwell.
- Allison, Paul D. (2000) "Multiple imputation for missing data: A cautionary tale." *Sociological Methods and Research* 28: 301-309.
- Allison, Paul D. (1999) "Comparing logit and probit coefficients across groups." *Sociological Methods and Research* 28: 186-208.
- Allison, Paul D. (1996) "Fixed effects partial likelihood for repeated events." *Sociological Methods and Research* 25: 207-222.
- Allison, Paul D. (1995) "Exact variance of indirect effects in recursive linear models." Pp. 253-266 in Peter V. Marsden (ed.), *Sociological Methodology 1995*. Oxford: Basil Blackwell.
- Allison, Paul D. (1995) "The impact of random predictors on comparisons of coefficients between models." *American Journal of Sociology* 100:1294-1305.
- Allison, Paul D. (1994) "Using panel data to estimate the effects of events." *Sociological Methods and Research* 23: 174-199.
- Allison, Paul D. and Nicholas Christakis (1994) "Logit models for sets of ranked items." Pp. 199-228 in Peter V. Marsden (ed.), *Sociological Methodology 1994*. Oxford: Basil Blackwell.
- Long, J. Scott, Paul D. Allison and Robert McGinnis (1993) "Rank advancement in academic careers: Sex differences and the effects of productivity." *American Sociological Review* 58:703-722.
- Allison, Paul D. (1992) "The cultural evolution of beneficent norms." *Social Forces* 71: 279-301.
- Allison, Paul D. (1992) "Cultural relatedness under oblique and horizontal transmission rules." *Ethology and Sociobiology* 13: 153-169.
- Allison, Paul D. (1992) "Event history analysis." Pp. 599-603 in Edgar F. Borgatta and Marie L. Borgatta (eds.), *Encyclopedia of Sociology*. New York: Macmillan.
- Bienen, Leigh B., Neil A. Weiner, Paul D. Allison, and Douglas L. Mills (1991) "The reimposition of capital punishment in New Jersey: Felony-murder cases." *Albany Law Review* 54:709-817.
- Allison, Paul D. and Robert Hauser (1991) "Reducing bias in estimates of linear models by remeasurement of a random subsample." *Sociological Methods and Research* 19: 466-492.
- Allison, Paul D. and J. Scott Long (1990) "Departmental effects on scientific productivity." *American Sociological Review* 55: 469-478.
- Allison, Paul D. (1990) "Change scores as dependent variables in regression analysis." Pp. 93-114 in Clifford Clogg (ed.), *Sociological Methodology 1990*. Oxford: Basil Blackwell.
- Allison, Paul D. and Frank F. Furstenberg, Jr. (1989) "How marital dissolution affects children: Variations by age and sex." *Developmental Psychology* 25: 540-549.

- Bienen, Leigh B., Neil A. Weiner, Deborah W. Denno, Paul D. Allison, and Douglas L. Mills (1988) "The reimposition of capital punishment in New Jersey: The role of prosecutorial discretion." *Rutgers Law Review* 41: 27-372.
- Furstenberg, Frank F., S. Philip Morgan and Paul D. Allison (1987) "Paternal participation and children's well-being after marital dissolution." *American Sociological Review* 52: 695-701.
- Allison, Paul D. and J. Scott Long (1987) "Inter-university mobility of academic scientists." *American Sociological Review* 52: 643-652.
- Allison, Paul D. (1987) "Estimation of linear models with incomplete data." Pp. 71-103 in Clifford Clogg (ed.), *Sociological Methodology 1987*. Washington, DC: American Sociological Association.
- Allison, Paul D. (1987) "Introducing a disturbance into logit and probit regression models." *Sociological Methods and Research*. 15: 355-374.
- Allison, Paul D. (1985) "Survival analysis of backward recurrence times." *Journal of the American Statistical Association* 80: 315-22.
- Furstenberg, Frank F., Judy Shea, Paul D. Allison, Roberta Herceg-Baron and David Webb (1983) "Contraceptive continuation among adolescents attending family planning clinics." *Family Planning Perspectives* 15: 211-17.
- Allison, Paul D. (1982) "Regression analysis of inequality measures applied to interval scales." *Quality and Quantity* 16: 251-60.
- Allison, Paul D. and Jeffrey K. Liker (1982) "Analyzing sequential categorical data on dyadic interaction." *Psychological Bulletin* 91: 393-403.
- Allison, Paul D., J. Scott Long and Tad K. Krauze (1982) "Cumulative advantage and inequality in science." *American Sociological Review* 47: 615-25.
- McGinnis, Robert, Paul D. Allison and J. Scott Long (1982) "Postdoctoral training in bioscience: allocation and outcomes." *Social Forces* 60: 701-22.
- Allison, Paul D. (1982) "Discrete-time methods for the analysis of event histories." Pp. 61-98 in Samuel Leinhardt (ed.), *Sociological Methodology 1982*. San Francisco: Jossey-Bass.
- Allison, Paul D. (1980) "Estimation and testing for a Markov model of reinforcement." *Sociological Methods and Research* 8: 434-53.
- Allison, Paul D. (1980) "Inequality and scientific productivity." *Social Studies of Science* 10: 163-79.
- Long, J. Scott, Robert McGinnis and Paul D. Allison (1980) "The problem of junior-authored papers in constructing citation counts." *Social Studies of Science* 10: 127-43.
- Allison, Paul D. (1980) "Analyzing collapsed contingency tables without actually collapsing." *American Sociological Review* 45: 123-30.
- Long, J. Scott, Paul D. Allison and Robert McGinnis (1979) "Entrance into the academic career." *American Sociological Review* 44: 816-30.
- Allison, Paul D. (1979) "Experimental parapsychology as a rejected science". Pp. 271-91 in Roy Wallis (ed.), *On the Margins of Science: The Social Construction of Rejected Knowledge*. Sociological Review Monograph No. 27. University of Keele.
- Allison, Paul D. (1978) "Measures of inequality." *American Sociological Review*. 43: 865-80.
- Allison, Paul D. (1977) "Testing for interaction in multiple regression." *American Journal of Sociology* 83: 144-53.
- Allison, Paul D. (1977) "The reliability of variables measured as the number of events in an interval of time." Pp. 238-53 in Karl Schuessler (ed.), *Sociological Methodology 1978*. San Francisco: Jossey-Bass.
- Hargens, Lowell L., Barbara F. Reskin, and Paul D. Allison (1976) "Problems in estimating measurement error from panel data: an example involving the measurement of scientific productivity." *Sociological Methods and Research* 4: 439-58. Reprinted in Hubert M. Blalock (ed.), *Causal Models in Panel and Experimental Designs*. Aldine, 1985.

- Allison, Paul D., Derek de Solla Price, Belver C. Griffith, Michael Moravcsik, and John A. Stewart (1976) "Lotka's law: a problem in its interpretation and application." *Social Studies of Science* 6: 269-76.
- Allison, Paul D. (1976) "A simple proof of the Spearman-Brown formula for continuous test lengths." *Psychometrika* 41: 135-36.
- Allison, Paul D. and John A. Stewart (1974) "Productivity differences among scientists: evidence for accumulative advantage." *American Sociological Review* 39: 596-606. Reprinted in Paula E. Stephan and David B. Audretsch (eds.), *The Economics of Science and Innovation*. Northampton, MA: Edward Elgar.

## Commentary and Reviews

- Allison, Paul D. (2010) Review of Daniels and Hogan, *Missing Data in Longitudinal Studies: Strategies for Bayesian Modeling and Sensitivity Analysis*. In *Significance* 7: 139.
- Allison, Paul D. (1992) Review of Wuthnow, *Acts of Compassion*. In *Contemporary Sociology* 21: 436-438.
- Allison, Paul D. (1990) Review of Blossfeld, Hamerle and Mayer, *Event History Analysis*. In *Contemporary Sociology* 19: 624-625.
- Allison, Paul D. (1990) Review of Oliner and Oliner, *The Altruistic Personality*. *Public Opinion Quarterly* 54: 442-444.
- Allison, Paul D. (1983) Comment on "A model for cancer mortality rates." *Biometrics* 39: 530-31.
- Long, J. Scott, Robert McGinnis and Paul D. Allison (1981) "Reply to Chubin, Porter and Boeckman." *American Sociological Review* 46: 496-98.
- Allison, Paul D. (1981) "Inequality measures for nominal data." *American Sociological Review* 46: 371-73.
- Allison, Paul D. (1979) "Reply to Jasso." *American Sociological Review* 44: 870-72.
- Allison, Paul D. (1978) Review of Elkana et al., *Toward a Metric of Science*. In *Society for Social Studies of Science Newsletter* 3: 33-34.
- Allison, Paul D. (1978) Review of Harriet Zuckerman's *Scientific Elite*. In *Political Science Quarterly* 93: 345-47.
- Allison, Paul D. and John A. Stewart (1975) "Reply to Faia." *American Sociological Review* 40: 829-31.
- Allison, Paul D. (1975) "On Clemente's conclusions." *American Journal of Sociology* 80: 1237-39.

## Grants:

- |         |  |
|---------|--|
| 2007-11 | Co-Principal Investigator, "Dynamic Relationships of BMI and SES Over the Life Cycle and Between Generations," National Institutes of Health.  |
| 1985-86 | Principal Investigator, "Productivity and Prestige in Science," National Science Foundation.   |
| 1985-86 | Principal Investigator, "Effects of Divorce on Children," National Science Foundation.   |
| 1982-84 | Co-Principal Investigator, "Contraceptive Use and Clinic Continuation Among Adolescents," Office of Adolescent Pregnancy Programs.             |
| 1978-80 | Principal Investigator, "Productivity in Science: The Role of University Departmental Resources and Quality," National Science Foundation.     |
| 1982-83 | Principal Investigator, "The Use of Survival Methods to Improve Predictive Models Based on Criminal Histories," National Institute of Justice. |

**Professional Activities:**

- 1993 -1996 Editorial Board Member, *American Journal of Sociology*
- 1992 -1996 Editorial Board Member, *Sociological Forum*.
- 1987 -1991 Council Member, Methodology Section, American Sociological Association.
- 1976 -2011 Editorial Board Member, *Sociological Methods and Research*
- 2012 - Editorial Board Member, *Sociological Methodology*

Member: American Sociological Association, American Statistical Association

**Courses Taught:**

Introductory Sociology, Introductory Research Methods, Introductory Statistics, Sociology of Science, Categorical Data Analysis, Multivariate Analysis, Structural Equation Models, Event History Analysis, Longitudinal Data Analysis, Missing Data, Altruism and Society, Judaism as a Sociocultural System.