

CURRICULUM VITAE

ROBERT D. GIBBONS

PERSONAL INFORMATION

Office: Center for Health Statistics, University of Chicago, 5841 S. Maryland Avenue, MC 2007, Office W260, Chicago IL. 60637
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Date of Birth: June 28, 1955
Place of Birth: Chicago IL
Citizenship: U.S.

EDUCATION AND TRAINING

Ph.D., University of Chicago, 1981, Statistics and Psychometrics.

Dissertation Topic: Trend in Correlated Proportions
Dissertation Committee: R. Darrell Bock, James J. Heckman, David L. Wallace, James S. Coleman

B.A., University of Denver, 1976, Chemistry and Mathematics

PROFESSIONAL/ACADEMIC APPOINTMENTS:

2016-present The Blum-Riese Professor in Medicine and Public Health Sciences
2010-present Director, *Center for Health Statistics*, University of Chicago.
2010-present Professor of Medicine, University of Chicago.
2010-present Professor of Public Health Sciences, University of Chicago.
2010-present Professor of Psychiatry, University of Chicago.
2010-present Professor Emeritus of Biostatistics, University of Illinois
2009-2010 Professor of Mathematics, Statistics and Computer Science, UIC.
2000-2010 Director, *Center for Health Statistics*, University of Illinois at Chicago.
1993-2010 Professor of Biostatistics, University of Illinois at Chicago.
1993-2010 Professor of Psychiatry, University of Illinois at Chicago.
1985-1993 Associate Professor of Biostatistics, University of Illinois at Chicago.
1985-1993 Associate Professor of Psychiatry, University of Illinois at Chicago.
1988-1989 Visiting Professor, University of Chicago.
1981-1985 Assistant Professor of Biostatistics, University of Illinois at Chicago.
1981-1985 Assistant Professor of Psychiatry, University of Illinois at Chicago.
1981-1986 Statistical Consultant, National Institute of Mental Health.
1980-1981 Senior Programmer and Statistician, University of Chicago, DOD/NORC.
1978-1982 Statistician, Illinois State Psychiatric Institute.
1978-1980 Statistical Consultant, Harvard University, Department of Psychology.

1977-1978 Statistical Analyst, University of Chicago, Department of Psychiatry.

HONORS, AWARDS, SCHOLARSHIPS

Scholarship for Graduate Study, 1978-1981, University of Chicago

Young Investigator Award, 1985-1992, Office of Naval Research

Research Scientist Award - National Institute of Mental Health, 1995-2000

20th Century Distinguished Service Award for Outstanding Contribution to the Development of Statistical Ecology, Environmental Statistics and Risk Assessment, 2000

Fellow of the American Statistical Association, 2001

Member of the Institute of Medicine of the National Academy of Sciences, 2001

Member of the American College of Neuropsychopharmacology, 2001

Youden Prize for Contributions to Inter-laboratory Calibration (ASA, 2002)

Harvard Award in Psychiatric Epidemiology and Biostatistics, (Harvard, 2003)

2001 Book with Coleman ranked in the top 5 books for Statisticians by the ASA

Youden Prize for Contributions to Inter-laboratory Calibration (ASA, 2006)

University of Illinois at Chicago - Distinguished Faculty Award, 2009

American Statistical Association – Outstanding Statistical Applications Award, 2009

Professor Emeritus of Biostatistics, University of Illinois, 2010

Pritzker Scholar, University of Chicago, 2011

Rema Lapouse Award for Contributions to Psychiatric Epidemiology – APHA, 2012

Long-Term Excellence Award – Health Policy Statistics Section – ASA, 2013

Advisor to the Director of NIH (Dr. Francis Collins), 2014

Elected to the International Statistical Institute (ISI), 2015

Fellow of the Center for Health Administration Studies (CHAS), 2015

Endowed Chair University of Chicago – The Blum-Riese Professorship, 2016

PROFESSIONAL MEMBERSHIPS

Institute of Medicine of the National Academy of Sciences

American Statistical Association (Fellow)

Biometric Society

Psychometric Society

American College of Neuropsychopharmacology

Institute of Medicine of Chicago

REVIEW AND EDITORIAL EXPERIENCE

Reviewer for *Journal of American Statistical Assoc.*, *Biometrics*, *Psychometrika*, *Technometrics*, *Archives of General Psychiatry*, *Journal of Psychiatric Research*, *American Journal of Psychiatry*, *Science*, *Psychiatry Research*, *Sociological Methodology*, *Psychological Bulletin*, *Biological Psychiatry*, *Environmental Science and Technology*, *Statistics in Medicine*, and *Ground Water*.

Grant reviewer for National Institute of Mental Health

Editorial Board of *Health Services and Outcomes Research*

National Institute of Mental Health Services Research IRG Member 1992-1996

Veterans Administration Cooperative Study Review Board, 1998
Editorial Board of *JAMA Psychiatry*

ADMINISTRATIVE/COMMITTEE WORK

Institute of Medicine - Committee on the Drug Halcion, 1997
Institute of Medicine - Committee on Organ Procurement and Transplantation Policy, 1999
Institute of Medicine - Health Sciences Policy Board Member, 1999-2004.
Institute of Medicine - Committee on Small *n* Clinical Trials, 2001
Institute of Medicine - Committee on Adolescent and Adult Suicide, 2002
FDA Advisory Board on Suicide and Antidepressants in Adolescents, 2004
Institute of Medicine - Committee on National Cord Blood Stem Cell Program, 2005
Institute of Medicine - Committee on US Drug Safety, 2005-2006
NIH Consensus Panel on the Efficacy and Safety of Multivitamins, 2006
VA – Blue Ribbon Working Group on Suicide Prevention in the Veterans Population, 2008
Institute of Medicine/NRC – Asbestos Research Roadmap Committee, 2009
National Academy of Sciences/NRC – Committee on Assessment of Agent Monitoring Strategies
for the Blue Grass and Pueblo Chemical Agent Destruction Pilot Plants, 2011
Mathematica Panel on Performance Measure Testing, 2013
NIH Panel on the Future of the National Children’s Study, 2014-2015

RECENT KEY PRESENTATIONS

Congressional Testimony on *Allocation of Organs for Transplantation* (on behalf of the National Academy of Sciences) - 9/21/99.

Biological Psychiatry Meeting. *The Statistics of Suicide*, 2008.

Harvard University Department of Statistics. *Statistical Issues in Drug Safety: The Curious Case of Antidepressants, Anticonvulsants, ... , and Suicide*, 2008.

Great Lakes cGMP & Regulatory Science Forum. *Post-Approval Drug Safety Surveillance*, 2009.

International Symposium about Current Issues and Controversies in Psychiatry. *The Curious Case of Antidepressants, Anticonvulsants, ... , and Suicidal Behavior*, 2009.

University of Chicago Health Economics Meetings. Discussion of *A Flexible Two-part Random Effects Model for Correlated Medical Costs*, 2009.

Institute of Medicine - Co-Chair – *CNS Clinical Trials: Suicidality and Data Collection*, 2009.

International Conference on Health Policy Statistics. *Statistical Issues in Drug Safety*, 2010.

New Clinical Drug Evaluation Unit (NCDEU) meeting: *The Future of Psychiatric Measurement*, 2010.

NCDEU meeting: *Post Approval Drug Safety Surveillance*, 2010.

APHA Annual Meeting: *Rema Lapouse Award Lecture*, 2012.

IASR World Congress of Suicide, Keynote Speaker, 2013

American Statistical Society: International Conference on Health Policy Statistics, Keynote Speaker 2013.

UCLA Grand Rounds, 2015

National Academy of Medicine, Invited Speaker, 2015

Michael Davis Lecture – SSA/CHAS University of Chicago, 2015

International Summit on Suicide Research, Keynote Speaker, 2015

RECENT TEACHING EXPERIENCE AND CURRICULUM DEVELOPMENT

University of Illinois at Chicago – Division of Biostatistics – Guest lecturer – 2000-2010

Longitudinal Data Analysis (#537)

Logistic Regression and Survival Analysis (#505)

Biostatistics Research Seminar (#595).

PGY-3 Research Methods in Psychiatry

University of Chicago – 1988-1989

Multivariate Statistics (Division of Social Sciences)

University of Chicago – 2011-2015

Statistical Applications course (Public Health Sciences and Statistics) (2012-2015)

Committee on Academic Promotions (2013-2015)

MENTORSHIP

University of Chicago

Ph.D.

Eiji Muraki (1983) *Marginal maximum likelihood estimation for three-parameter polychotomous item response models: application of an EM algorithm.*

Ulf Bockenholt (1985) *Inverse prediction in behavioral research.*

Donald R. Hedeker (1989) *Random Regression models with autocorrelated errors: investigating drug plasma levels and clinical response.*

Steven G. Schilling (1993) *Advances in full-information factor analysis using the Gibbs sampler.*

Matthew Churpek (2014) Predicting in-hospital cardiac arrest using electronic health record data.

Marcelo Coca Perrailon (2015) Essays on health care quality measurement and evaluation.

Jiebiao Wang (in progress)

University of Illinois at Chicago

Ph.D.

Subhash Aryal: (2008) *Small sample tests and sample size determination for linear and non-linear mixed-effects models.*

Kush Kapur (2010) *Hypothesis testing, power and sample size determination for health science data.*

Anup Amatya (2011) *Meta analysis for binary adverse event data.*

Yoonsang Kim: (2011) *Confidence and prediction intervals for small sample asbestos fiber counts.*

Glen Schumock (2012) *Drug Safety*

David Morton: (2015) *Hospital Profiling*

M.S.

Subhash Aryal: (2004)

Arijit Sinha (2006)

Anup Amatya (2007)

Post-Doctoral Fellowship

Jason Immekus (2008)

FUNDED RESEARCH

Current:

- 2013-2018 National Institute of Mental Health. *A New Statistical Paradigm for Measuring Psychopathology in Youth*, Administrative Supplement, \$600,000 (PI).
- 2013-2018 National Institute of Mental Health. *A New Statistical Paradigm for Measuring Psychopathology in Youth*, Grant #RO1 MH100155-01, \$3,376,000 (PI).
- 2014-2018 National Institute of Mental Health. *Risks and Benefits of ADHD Medication for Psychiatric and Neurologic Problems* (D'Onofrio). R01 MH102221, (PI of Statistical Core).
- 2014-2017 NIH/PECARN. *Emergency Department Screen for Teens at Risk for Suicide (ED-STARS)*. U01MH104311 (King), (PI or Statistical Core).
- 2011-2016 National Institute of Health (AHRQ - CERT). *Tools for Optimizing Prescribing, Monitoring and Education*. U18HS016973 (Lambert), \$4,000,000, (PI of Statistical Core).
- 2011-2016 CMS. *Integrated Inpatient and Outpatient Care for Patients at High Risk of Hospitalization*. 1C1CMS331033-01-01 (Meltzer), (PI of Statistical Core).

Past:

- 1984-1985 Campus Research Board of the University of Illinois. Grant #889 *Statistical Models of Complex Psychiatric Data*. \$10,300 (PI)
- 1985-1988 Office of Naval Research. Young Investigator Award. *Conditional Dependence*, \$181,000 (PI).
- 1986-1987 National Institute of Mental Health. *A Comparison of Discrete and Continuous Latent Structure*, Grant #1RO3 MH 39750-01 A1 \$15,000, 1986 (Co. PI).
- 1985-1987 MacArthur Foundation, Network I, *Biometric Laboratory Support* \$150,000 (PI).
- 1988-1989 Campus Research Board of the University of Illinois. Grant #5590 *Statistical Visualization*. \$8,000 (PI).
- 1988-1990 MacArthur Foundation, Network I, *A Statistical Model for Biological Rhythm Study* \$30,000 (PI).
- 1988-1991 Office of Naval Research. Continuation of Support for *Conditional Dependence*, \$184,000 (PI).
- 1990-1992 National Institute of Mental Health. *Problem Drinking Over Time by Future MDs* Grant # RO1 AA07311-05, \$493,233, Statistician, (Dr. Judy Richman PI).
- 1990-1991 MacArthur Foundation, Network I, *Social Zeitgebers and Biological Rhythms* \$24,000. (Co. PI).
- 1990-1991 National Institute of Mental Health. *MIXMASTER: A computer program for resolving normal mixtures*, Grant #R43 MH 45620-01 A1 \$50,000, (PI).
- 1991-1995 National Institute of Mental Health. *Statistical Evaluation: Preschoolers Behavior Problems & Health Care Use: A Longitudinal Study*, Grant # RO1 MH46089, \$154,603, (Biostatistical Subcontract - Dr. John Lavigne PI).
- 1991-1993 National Institute of Mental Health. *Random Regression Models for Longitudinal Psychiatric Data*, Grant #RO1 MH 44826-01 A2 \$299,000, (PI).

- 1991-1992 National Institute of Mental Health. *Monoamine Receptor Sensitivity in Mental Illness*, Grant #RO1 MH36169-08A2, \$187,040, Statistician, (Dr. Ghanshyam PI).
- 1991-1992 MacArthur Foundation, Network I, *A Statistical Re-evaluation of the NIMH Treatment Collaborative Study of Depression Using Random Regression Models*, \$34,167. (PI).
- 1992-1997 National Institute of Mental Health. *Schizophrenic Cognition: A Longitudinal Study*, Grant # HHS-2 RO1 MH26341-17, \$36,000 Biostatistical subcontract, (Dr. Martin Harrow PI).
- 1992-1996 National Institute of Mental Health. *Serotonin Receptors in Teenage Suicide and Their Families*, Grant # RO1 MH48153-01A1, \$940,316, Statistician, (Dr. Ghanshyam Pandey PI).
- 1993-1996 National Institute of Mental Health. *Random Regression Models for Longitudinal Psychiatric Data*, Grant #RO1 MH 44826-03 A1 \$473,080, (PI). Renewal
- 1995-2000 National Institute of Mental Health. *Research Scientist Award Grant #K05 MH01254* \$458,132 (PI).
- 1996-2000 National Institute of Mental Health. *Statistical Models for Nested Service Utilization Data Grant #RO1 MH 56146* \$473,080 (CO-PI) (Dr. Donald Hedeker PI).
- 2000-2004 National Institute of Mental Health. *Statistical Models for Nested Service Utilization Data (percentile = 0.5) Grant #RO1 MH 56146-04* \$1,233,936 (CO-PI) (Dr. Donald Hedeker PI).
- 2000-2007 National Institute of Mental Health. *Statistical Center for the MTA Follow-up Study*, \$923,000 (PI).
- 2002-2007 National Institute of Mental Health. *Mixed-effects ZIP models for Mental Health Services Research*, #RO1 MH65556-01, \$660,735 (PI).
- 2002-2006 National Institute of Mental Health. *Mental Health Computerized Adaptive Testing*, Grant #RO1 MH66302-01, \$1,077,502 (PI).
- 2004-2007 National Institute of Mental Health. *Multivariate Probit Model for Health Services Research*, Grant #RO1 MH67198-01, \$663,950 (Dr. Hua Yun Chen PI).
- 2005-2008 National Institute of Mental Health. *Statistical Testing for Generalized Mixed-effects Models*, Grant #RO1 MH069353, \$450,000 (Dr. Dulal Bhaumik PI).
- 2005-2006 National Cancer Institute. *Evaluation of the Added-Value of Multidimensional and Hierarchical Psychometric Modeling for Cancer Outcomes*, Contract #05828, \$150,000 (PI).
- 2006-2007 National Institute of Mental Health. *Antidepressant Treatment and Suicidality: Methodological and Biostatistical Solutions*. #R56 MH078580-01, \$232,500 (PI).
- 2007-2011 National Institute of Health (AHRQ - CERT). *Tools for Optimizing Prescribing, Monitoring and Education*. U18HS016973, \$4,000,000 (PI of Statistical Core).
- 2006-2013 National Institute of Mental Health. *Mental Health Computerized Adaptive Testing - Competitive Renewal*, Grant #RO1 MH66302-04, \$3,429,658 (PI).
- 2007-2013 National Institute of Mental Health. *Autism Center of Excellence: Translational Studies of Insistence of Sameness in Autism*. 1P50HD055751, \$9,600,000 (PI of Statistical Core).
- 2008-2013 National Institute of Mental Health. *Antidepressant Treatment and Suicidality: Methodological and Biostatistical Solutions*. #R01 MH8012201, \$2,640,000 (PI).

2009-2013 National Institute of Mental Health. *Mental Health Computerized Adaptive Testing - Supplement*, Grant #RO1 MH66302-04, \$1,773,298 (PI).

PUBLICATIONS (peer reviewed, by topic area – authors are current or former students or trainees)

General Statistics and Biostatistics:

1. **Gibbons R.D.**, Fielder-Weiss V.C., West D.P., Lapin G. Quantification of scalp hair - a computer aided methodology. *Journal of Investigative Dermatology*, 86, 78-82, 1986.
2. **Gibbons R.D.**, Computer-aided quantification of scalp hair. *Dermatologic Clinics*, 4, 627-640, 1986.
3. **Gibbons R.D.**, Bock RD. Trend in Correlated Proportions. *Psychometrika*, 52, 113-124, 1987.
4. Hatoum N.S., Leach C.L., Talsma D.M., **Gibbons R.D.**, & Garvin P.J. A statistical basis for using fewer rabbits in dermal irritation testing. *Journal of the American College of Toxicology*, 9, 49-60, 1990.
5. Tanner J.M., **Gibbons R.D.** & Bock R.D. An image analysis system for TW skeletal maturity. *Hormone Research*, 32, 11, 1992.
6. **Gibbons R.D.**, Hedeker D.R. & Davis J.M. Estimation of effect size from a series of experiments involving paired comparisons. *Journal of Educational Statistics*, 18, 271-279, 1993.
7. **Gibbons R.D.**, Hedeker D.R. Charles S.C., & Frisch P. A random-effects probit model for predicting medical malpractice claims. *Journal of the American Statistical Association*, 89, 760-767, 1994.
8. Tanner J.M., & **Gibbons R.D.** A computerized image analysis system for estimating Tanner-Whitehouse 2 bone age. *Hormone Research*, 42, 282-287, 1994.
9. Hedeker D.R., & **Gibbons R.D.** A random-effects ordinal regression model for multilevel analysis. *Biometrics*, 50, 933-944, 1994.
10. Tanner J.M., & **Gibbons R.D.** Automatic bone age measurement using computerized image analysis. *J. Paed Endocr*, 7, 141-145, 1994.
11. Hedeker D. & **Gibbons R.D.** MIXOR: a computer program for mixed-effects ordinal regression analysis. *Computer Methods and Programs in Biomedicine*, 49, 157-176, 1996.
12. Hedeker D. & **Gibbons R.D.** MIXREG: a computer program for mixed-effects regression analysis with autocorrelated errors. *Computer Methods and Programs in Biomedicine*, 49, 229-252, 1996.
13. Bock R.D. & **Gibbons R.D.** High dimensional multivariate probit analysis. *Biometrics*, 52, 1183-1194, 1996.
14. Hedeker D. & **Gibbons R.D.** Application of random-effects pattern-mixture models for missing data in longitudinal studies. *Psychological Methods*, 2, 64-78, 1997.
15. **Gibbons R.D.** & Hedeker D. Random-effects probit and logistic regression models for three-level data. *Biometrics*, 53, 1527-1537, 1997.
16. **Gibbons R.D.** & Wilcox-Gök V. Health Service Utilization and Insurance Coverage: A Multivariate Probit Analysis. *Journal of the American Statistical Association*, 93, 63-72, 1998.
17. **Gibbons R.D.** & Lavigne J.V. Emergence of childhood psychiatric disorders: A multivariate probit analysis. *Statistics in Medicine*, 17, 2487-2499, 1998.
18. Hedeker D.R., **Gibbons R.D.** & Waternaux C. Sample size estimation for longitudinal designs with attrition. *J. of Educational Statistics*, 24, 70-93, 1999.

19. **Gibbons R.D.**, Brown B.W., Azarnoff D.L., Bunney W.E., Cancro R., Gillin J.C., Hullett S., Killam K.F., Krystal J.H., Kupfer D.J., Stolley P.D., Pope A.M., French G.S. Assessment of the safety and efficacy data for the hypnotic Halcion^(R): Results of an analysis by an Institute of Medicine committee. *Journal of the American Statistical Association*, 94, 993-1002, 1999.
20. **Gibbons R.D.**, Meltzer D., Duan N., Penhoet E.D., Dubler N.N., Francis C.K., Gill, B., Guinan E., Henderson M., Ildstad S.T., King, P.A., Martinez-Maldonado M., Mclain G.E., Murray J.E., Nelkin D. Spellman M.W, Pope A. and Pitluck S. Waiting for Organ Transplantation, *Science*, 287, 237-238, 2000.
21. **Gibbons R.D.**, Duan, N., Meltzer D. Inequities in liver transplant allocation. *Science*, 289, 549, 2000.
22. **Gibbons R.D.** & Hedeker D. Applications of mixed-effect models in biostatistics. *Sankhya*, 62, Series B, 70-103, 2000.
23. Marcus S.M. and **Gibbons R.D.** Estimating the Efficacy of Receiving Treatment In Randomized Clinical Trials with Noncompliance. *Health Services and Outcomes Research Methodology*, 2, 247-258, 2001.
24. **Gibbons R.D.**, Duan N., Meltzer D., Pope, A., Penhoet E.D., Dubler N.N., Francis C.K., Gill, B., Guinan E., Henderson M., Ildstad S.T., King, P.A., Martinez-Maldonado M., Mclain G.E., Murray J.E., Nelkin D. Spellman M.W, and Pitluck S. Waiting for Organ Transplantation: Results of an analysis by an Institute of Medicine Committee, *Biostatistics*, 4, 207-222, 2003.
25. **Gibbons R.D.** Racial disparities in liver transplantation. *Liver Transplantation*, 10, 842-843, 2004.
26. **Gibbons R.D.**, Lazar N.A., Bhaumik D.K., Sclove S.L., Chen H.Y., Thulborn K.R., Sweeney J.A., Hur K., Patterson D. Estimation and classification of fMRI hemodynamic response patterns. *Neuroimage*, 22, 804-814, 2004.
27. **Gibbons R.D.**, Bhaumik, D.K., Cox D.R., Grayson D., Davis J.M., and Sharma R.P. Sequential Prediction Bounds for Identifying Differentially Expressed Genes in Replicated Microarray Experiments. *Journal of Statistical Planning and Inference*, 129, 19-37, 2005.
28. Roy A., Bhaumik D.K., Aryal S., **Gibbons R.D.** Sample size determination for hierarchical longitudinal designs with differential attrition rates. *Biometrics*, 63, 699-707, 2007.
29. **Gibbons R.D.**, Hur K., Bhaumik D., Bell C.C. Profiling of county-level foster care placements using random-effects Poisson regression models. *Health Services and Outcomes research Methodology*, 7, 97-108, 2007.
30. Aryal S., Bhaumik D.K., Mathew T. and **Gibbons R.D.** Approximate Tolerance Limits and Prediction Limits for the Gamma Distribution. *Journal of Applied Statistical Science*, 16, 103-111, 2007.
31. **Gibbons R.D.**, Segawa E., Karabatsos G., Amatya A.K., Bhaumik D.K., Brown C.H, Kapur K., Marcus S., Hur K., Mann J.J. Random-effect Poisson regression analysis of adverse event reports: The relationship between antidepressants and suicide. *Statistics in Medicine*, 27, 1814-1833, 2008.
32. Bhaumik D.K., Roy A., Lazar N.A., Kapur K., Aryal S., **Gibbons R.D.**, Sweeney J.A., Patterson D: Hypothesis testing, power and sample size determination for between group comparisons in fMRI experiments. *Statistical Methodology*, 6, 133-146, 2008
33. **Gibbons R.D.** Design and analysis of longitudinal studies. *Psychiatric Annals*, 38, 758-761, 2008.
34. Bhaumik D.K., Roy A. Aryal S., Hur K., Duan N., Normand S.L.T., Brown C.H., **Gibbons R.D.** Sample size determination for studies with repeated continuous outcomes. *Psychiatric Annals*, 38, 765-771, 2008.
35. Lavori P.W., Brown C.H., Duan N., **Gibbons R.D.**, Greenhouse J. Missing data in longitudinal

- clinical trials - Part A: Design and conceptual issues. *Psychiatric Annals*, 38, 784-792, 2008.
36. Siddique J., Brown C.H., Hedeker D., Duan N., **Gibbons R.D.**, Miranda J., Lavori P.W. Missing data in longitudinal trials – Part B: Analytic issues. *Psychiatric Annals*, 38, 793-801, 2008.
 37. Marcus S.M., Siddique J., Ten Have, T.R., **Gibbons R.D.**, Stuart E., Normand S.L.T. Balancing treatment comparisons in longitudinal studies. *Psychiatric Annals*, 38, 805-811, 2008.
 38. Brown C.H., Ten Have T.R., Jo B., Dagne G., Wyman P.A., Muthén B., and **Gibbons R.D.** Adaptive designs in public health. *Annual Review of Public Health*, 30, 17.1-17.25, 2009.
 39. Bhaumik D.K., Kapur K., **Gibbons R.D.** Testing parameters of a gamma distribution for small samples. *Technometrics*, 51, 326-334, 2009.
 40. Kapur K., Roy A., Bhaumik D.K., **Gibbons R.D.**, Lazar N.A., Sweeney J.A., Aryal S., Patterson D. Estimation and classification of BOLD responses over multiple trials. *Communications in Statistics*, 38, 3009-3113, 2009.
 41. Bhaumik D.K., Santra S., Aryal S., **Gibbons R.D.** One-sided simultaneous prediction limits for left censored normal random variables. *Sankhya (Series B)*, 70, 226-282, 2009.
 42. Kraemer H.C., **Gibbons R.D.** Where do we go wrong in assessing risk factors, diagnostic and prognostic tests? The problems of two-by-two association. *Psychiatric Annals*, 39, 711-718, 2009.
 43. Kraemer H.C., **Gibbons R.D.** Why does the randomized clinical trial methodology so often mislead clinical decision-making? Focus on moderators and mediators of treatment. *Psychiatric Annals*, 39, 736-745, 2009.
 44. Teixeira-Pinto A., Siddique J., **Gibbons R.D.**, and Normand S.L.T. Statistical approaches to modeling multiple outcomes in psychiatric studies. *Psychiatric Annals*, 39, 711-718, 2009.
 45. Stuart E.A., Marcus S.M., Horvitz-Lennon M.V., **Gibbons R.D.**, Normand S.L.T., Brown C.H. Using non-experimental data to estimate treatment effects. *Psychiatric Annals*, 39, 719-728, 2009.
 46. **Gibbons R.D.** Design and analysis of longitudinal studies, part 2., *Psychiatric Annals*, 39, 690-691, 2009.
 47. **Gibbons R.D.**, Hedeker D., DuToit S. Advances in analysis of longitudinal data. *Annual Review of Clinical Psychology*, 6, 79-107, 2010.
 48. **Gibbons R.D.**, Amatya A.K., Brown C.H., Hur K., Marcus S.M., Bhaumik D.K., Mann, J.J. Post-approval drug safety surveillance. *Annual Review of Public Health*, 31, 419-437, 2010.
 49. **Gibbons R.D.**, Lambert B.L., Mann J.J. A comment on Patorno et.al. (2010): Anticonvulsant medications and the risk of suicide, attempted suicide, or violent death. *JAMA*, 304, 521-522, 2010.
 50. Siddique J., Crespi C.M., **Gibbons R.D.**, Green B.L. Using latent variable modeling and multiple imputation to calibrate rater bias in diagnosis assesment. *Statistics in Medicine*, 30, 160-174, 2011.
 51. **Gibbons R.D.**, Mann J.J. Strategies for quantifying the relationship between medications and suicidal behavior: what has been learned. *Drug Safety*, 34, 375-395, 2011.
 52. Bhaumik D.K., Aryal S., Amatya A., Kapur K., **Gibbons R.D.** Sample size determination for between group comparisons in mixed-effects logistic regression models for analysis of longitudinal data. *Journal of Applied Statistical Science*, 19, 1, 2011.
 53. Bhaumik D.K., Amatya A., Normand S.L., Greenhouse J, .Kaizar E., Neelon B., **Gibbons R.D.** Meta-analysis of rare binary adverse event data. *Journal of the American Statistical Association*, 107, 555-567, 2012.
 54. Marcus, S.M. and **Gibbons R.D.** Caution should be used in applying propensity scores estimated

in a full cohort to adjust for confounding in subgroup analyses. *Pharmacoepidemiology and Drug Safety*, 21, 710-712, 2012.

55. Brown C.H., Mohr, D.C., Gallo C.G., Mader C., Palinkas L., Wingood Gina., Prado G., Kellam S.G., Pantin Hilda., Poduska J., **Gibbons R.D.**, McManus J., Ogihara M., Valente T., Wulczyn F., Czaja S., Sutcliffe G., Villamar J., Jacobs C. A Computational Future for Preventing HIV in Minority Communities: How Advanced Technology Can Improve Implementation of Effective Programs. *Journal of Acquired Immune Deficiency Syndromes*. 63:S72-S84, 2013.
56. Amatya A., Bhaumik D.K., **Gibbons R.D.** Sample size determination for clustered count data. *Statistics in Medicine*, 17, 162–4179, 2013.
57. Aryal S., Bhaumik D.K., Mathew T., **Gibbons R.D.** An optimal test for variance components of multivariate mixed-effects linear models. *Journal of Multivariate Analysis*, 124, 166-178, 2014.
58. Bhaumik D.K., Kapur K., Balakrishnan N., Keating J.P., **Gibbons R.D.** Small sample tests for shape parameters of gamma distributions. *Communications in Statistics*, 44, 1339-1363, 2015.
59. **Gibbons, R.D.**, Coca-Perraillon, M., Kim, J.B. Item response theory approaches to harmonization and research synthesis. *Health Services and Outcomes Research Methodology*, 14, 213-231, 2014.
60. Amatya A., Bhaumik D.K., Normand S.L., Greenhouse J., Kaiser E., Neelon B., **Gibbons R.D.** Likelihood-based random effect meta-analysis of binary events. *J. of Biopharmaceutical Statistics*, published on-line, 2014.
61. **Gibbons, R.D.**, Coca-Perraillon, M., Hur, K., Conti, R.M., Valuck, R.J., Brent, D.A. Antidepressant treatment and suicide attempts and self-inflicted injury in children and adolescents. *Pharmacoepidemiology and Drug Safety*, 24, 208-214, 2015.
62. Siddique, J., Reiter J.P, Brincks A., **Gibbons, R.D.**, Crespi C.M., Brown C.H. Multiple imputation for harmonizing longitudinal non-commensurate measures in individual participant data meta-analysis. *Statistics in Medicine*, published on-line.

Mental Health Statistics:

63. **Gibbons R.D.**, Clark, D., & Davis J.M. A statistical model for the classification of imipramine response in depressed inpatients. *Psychopharmacology*, 78, 185-189, 1982.
64. **Gibbons R.D.**, Dorus E., Ostrow D.G., Pandey G.N., Davis J.M., Levy D.L. Mixture distributions in psychiatric research. *Biological Psychiatry*, 19, 483-509, 1984.
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