

Raphael Nishimura

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Education

2010 - 2015 Ph.D in Survey Methodology, Institute for Social Research,
University of Michigan, Ann Arbor, MI, USA.

2007 - 2010 Masters in Statistics, Institute of Mathematics and Statistics,
Universidade de São Paulo, São Paulo, Brazil.

2008 Sampling Program for Survey Statisticians, 61st Summer Institute in Survey
Research Techniques, Survey Research Center, Institute for Social Research,
University of Michigan, Ann Arbor, MI, USA.

2003 - 2006 B.S. with Honors in Statistics, Institute of Mathematics and Statistics,
Universidade de São Paulo, São Paulo, Brazil.

Professional Experience

2018 - Director of Sampling Operations, Survey Research Operations, Survey
Research Center, Institute for Social Research, University of Michigan

- Responsible for the design, implementation, monitor and evaluation of the samples of the projects conducted by the Survey Research Operations
- Responsible for designing and computing sample survey weights, conducting missing data imputation, data analysis and statistical modeling; and developing technical and methods reports
- Lead research initiatives to improve the data quality and efficiency of the survey process in the Survey Research Operations.
- Develop and implement statistical training for the Statistics and Methods Unit and other groups of the Survey Research Operations

2015 -2018 Principal Survey Scientist, Abt Associates

- Responsible for elaborating and implementing complex survey sample; designing and computing sample survey weights, conducting missing data imputation, data analysis and statistical modeling; and developing technical and methods reports

2006 - 2010 Survey Statistician, Ipsos Public Affairs, São Paulo, SP, Brazil.

- Responsible for sampling design, sample survey weighting, data analysis, statistical modeling, statistical training and developing technical reports and presentations

2010 -2015 Graduate Student Research Assistant, Survey Methodology Program,
Institute for Social Research, University of Michigan, Ann Arbor, MI, USA.

- Development of survey weights, replicate weights and multiple imputation for the Healthy Aging in Neighborhoods of Diversity Longitudinal Study (HANDLS)
- Survey methodology research on Inverse Sampling, Finite Population Bayesian Bootstrap for decomposition of the Design Effect and Indicators for the Risk of Nonresponse Bias

Consulting

- 2016** Survey weighting and data processing for Evitarus, Los Angeles, CA, USA.
- 2014** Sample design for student survey for Instituto Ayrton Senna, São Paulo, SP, Brazil.
- 2013 - 2014** Statistical consulting for research project Decision Making Process at Brazil's Supreme Court, Universidade Federal de São Carlos, São Carlos, SP, Brazil (PI: Dr. Fabiana Luci de Oliveira).
- 2013** Sample design and statistical analysis and modeling of the Brazilian Confidence Index in the Justice System, Fundação Getúlio Vargas, Rio de Janeiro, RJ, Brazil (PI: Dr. Fabiana Luci de Oliveira).
- 2012 - 2013** Sampling consulting for DataPopular Polling, Consulting and Marketing agency, São Paulo, SP, Brazil.
- 2011** Statistical analysis for survey research project of Milward-Brown, Ann Arbor, MI, USA. (PI: Dr. Frederick Conrad)
- 2011 - 2015** Sample design and data analysis for marketing research projects of oslo-in (advertising agency), São Paulo, SP, Brazil
- 2010 - 2013** Statistical consulting for marketing, social and education research projects of Foco BR Market & Social Research, São Paulo, SP, Brazil
- 2009** Sample design for the evaluation of the basic education system of Brazil (SAEB2009) for the Ministry of Education of Brazil (collaboration with professor Wilton de Oliveira Bussab).
- 2009** Data analysis of the complex sample survey data of São Paulo Megacity, Brazilian branch of the World Mental Health Survey, São Paulo, SP, Brazil (PI: Dr. Laura Helena Andrade and Dr. Maria Carmen Viana).
- 2008 - 2010** Statistical consulting for the Center of Psychiatric Epidemiology, Institute of Psychiatry, Universidade de São Paulo, São Paulo, SP, Brazil (PI: Dr. Arthur Guerra, Dr. Laura Helena Andrade, Dr. Wang Yuan Pang, Dr. Maria Carmen Viana).
- 2006 - 2010** Statistical consulting for the Fonoaudiology and Neuropsychology research group, Universidade de São Paulo, São Paulo, SP, Brazil (PI: Dr. Sonia Brucki and Dr. Maria Theresa Carthery).

2006-2007 Statistical analysis and modeling for Cardiology research group, Heart Institute (Instituto do Coração), Universidade de São Paulo, São Paulo, SP, Brazil (PI: Dr. Alfredo Mansur).

2005 Volunteer at Instituto Akatu (NGO), São Paulo, SP, Brazil.
Data analysis of two surveys on conscious consumption.

Teaching

2016-2017 **Instructor:** Methods of Survey Sampling & Workshop in Survey Sampling Techniques (summer course). Annual Summer Institute in Survey Research Techniques, Institute for Social Research, University of Michigan, Ann Arbor, MI, USA.

2010 - 2015 **Graduate Student Instructor:** Methods of Survey Sampling & Workshop in Survey Sampling Techniques (summer course). Annual Summer Institute in Survey Research Techniques, Institute for Social Research, University of Michigan, Ann Arbor, MI, USA.

2011, 2012 **Graduate Student Instructor:** Theory and Methods of Survey Sampling (graduate course). Survey Methodology Program, Institute for Social Research, University of Michigan, Ann Arbor, MI, USA.

2011 **Graduate Student Instructor:** Methods of Survey Sampling (graduate course). Survey Methodology Program, Institute for Social Research, University of Michigan, Ann Arbor, MI, USA.

2009, 2010 **Lecturer:** Exploratory Data Analysis and Statistical Methods (summer course). Universidade de São Paulo, São Paulo, SP, Brazil.

2009 **Teaching Assistant:** Statistical Methods (graduate course). Fundação Getúlio Vargas, São Paulo, SP, Brazil.

2007 **Guest Lecturer:** Applied Statistical Methods (short course), 9th National Conference of the Brazilian Society of Food and Nutrition, São Paulo, SP, Brazil.

2004 - 2006 **Teaching Assistant:** Introduction to Probability and Statistics I & II, Probability I, Descriptive Statistics, Planning and Research I and Regression Analysis (undergraduate courses), Universidade de São Paulo, São Paulo, SP, Brazil.

Publications

Nishimura, R., Wagner, J., Elliot, M. (2015). Alternative Indicators for the Risk of

- Nonresponse Bias: A Simulation Study. *International Statistical Review*, Vol 84, Issue 1, pp. 43-62.
- Andrade, L. H., Wang, Y. P., Andreoni, S., Silveira, C. M., Alexandrino-Silva, C., Siu, E. R., **Nishimura, R.**, Anthony, J. C., Gattaz, W. F., Kessler, R. C., Viana, M. C. (2012). Mental disorders in megacities: findings from the São Paulo megacity mental health survey, Brazil. *PLoS One*, 7(2):e31879.
- Wagner, G. A., Oliveira, L. G., Barroso, L. P., **Nishimura, R.**, Ishihara, L. M., Stempluk, V. A., Duarte, P. C. A. V., Andrade, A. G. (2012). Drug use in college students: a 13-year trend. *Revista de Saúde Pública*, 46 (2012), pp. 497–504.
- Andrade, A. G., Duarte, P. C. A. V., Barroso, L. P., **Nishimura, R.**, Alberghini, D. G., Oliveira, L. G. (2012). Use of Alcohol and other drug use among Brazilian college students: effects of gender and age. *Revista Brasileira de Psiquiatria*, Volume 34, Number 3, pp. 294-305.
- Viana, M. C., **Nishimura, R.**, Andrade, L. H. (2009). Sleep Disturbances Associated with Psychiatric Morbidity in the General Population of a Large Metropolitan Area: Results from the São Paulo Megacity Mental Health Survey, Brazil. *Sleep Medicine*, Vol. 10, Supplement 2, page 12.
- Bonassi, F. V., **Nishimura, R.**, Stern, R. B. (2009, Alphabetical authors). In Defense of Randomization: a Subjectivist Bayesian Approach. *AIP Conference Proceedings*. Volume 1193, Issue 1, pp. 32-39.
- Mansur, A. J., Fontes, R. S., Canzi, R. A., **Nishimura, R.**, Alencar, A. P., de Lima, A. C. P., Krieger, J. E., Pereira, A. C. (2009). Beta-2 adrenergic receptor gene polymorphisms Gln27Glu, Arg16Gly in patients with heart failure. *BMC Cardiovascular Disorders*, 9:50.

Professional Presentations

- Nishimura, R.** Suzer-Gurtekin, Z. T., Benson, G. (2018). Cell Phone Call Patterns in the Surveys of Consumers Attitudes. Paper presented at the 2018 Annual MAPOR Conference, Chicago, IL, USA.
- Nishimura, R.**, Brohinsky, S., Williams, D., Clement, S., Guskin, E. (2018). May I Please Speak to...? Sampling and Asking for Respondents by Name in Registration Based Samples. Paper presented at the 2018 Annual AAPOR Conference, Denver, CO, USA.
- Nishimura, R.** (2017). A Substitution Procedure for Missing Not at Random Mechanism. Paper presented at the 2017 Joint Statistical Meeting, Baltimore, MD, USA.
- Nishimura, R.**, Brohinsky, S., Williams, D., Clement, S. (2016). Evaluation of Cell Phone Non-coverage in Large Metropolitan Areas. Paper presented at the 2016 Annual AAPOR Conference, Austin, TX, USA.

Fernandez, B. M., Daly, D., **Nishimura, R.**, James, K. A., Li, Y., Levinson, A. H. (2016). Cell Phone Address Matching: A New Approach to Improving Survey Quality and Response Rates for Cell Phone Samples. Paper presented at the 2016 Annual AAPOR Conference, Austin, TX, USA.

Conrad, F.G., McCullough, W., and **Nishimura, R.** (2014). Matrix Versus Paging Designs for a Brand Attribution Task. Paper presented at Internet Survey Methodology Workshop, Free Univeristy of Bozen-Balzano, Balzano, Italy.

Nishimura, R. and Lepkowski, J. M. (2014). Substitution for Primary Sampling Units. Paper presented at the 2014 Joint Statistical Meeting, Boston, MA, USA.

Nishimura, R. (2014). Item Nonresponse in Auxiliary Variables Used in Weighting Adjustments for Survey Sample Data. Paper presented at the Seventh Michigan Student Symposium for Interdisciplinary Statistical Sciences, Ann Arbor, MI, USA.

Nishimura, R. (2013). Item Nonresponse in Auxiliary Variables Used in Weighting Adjustments for Survey Sample Data. Paper presented at the 2013 Annual MAPOR Conference, Chicago, IL, USA.

Nishimura, R. (2013). A Simulation Study Comparing the Properties of Ratio Raking and Post-stratified Estimators for Estimating the Population Mean Under Different Models. Poster presented at the 2013 Annual MAPOR Conference, Chicago, IL, USA.

Nishimura, R. (2013). Item Nonresponse in Auxiliary Variables Used in Weighting Adjustments for Survey Sample Data. Paper presented at the IV Escola de Amostragem e Metodologia de Pesquisa, Brasília, DF, Brazil.

Nishimura, R. (2013). A Simulation Study Comparing the Properties of Ratio Raking and Post-stratified Estimators for Estimating the Population Mean Under Different Models. Poster presented at the IV Escola de Amostragem e Metodologia de Pesquisa, Brasília, DF, Brazil.

Nishimura, R. (2013). Item Nonresponse in Auxiliary Variables Used in Weighting Adjustments for Survey Sample Data. Paper presented at the 2013 Graybill Conference, Colorado State University, Fort Collins, CO, USA. (Graybill Student Paper Competition winner)

Nishimura, R., Wagner, J., Elliot, M. (2012). Alternative Indicators for the Risk of Nonresponse Bias: A Simulation Study. Paper presented at the 2012 Joint Statistical Meeting, San Diego, CA, USA.

Nishimura, R. (2012). A Simulation Study Comparing the Properties of Ratio Raking and Post-stratified Estimators for Estimating the Population Mean Under Different Models. Poster presented at the at the Fifth Michigan Student Symposium for Interdisciplinary Statistical Sciences, Ann Arbor, MI, USA.

Nishimura, R., Conrad, F. G., McCullough, W. R. (2011). An Experiment on the Impact on Data Quality in Web Surveys from a New Approach to Question Format. Poster presented at the III Escola de Amostragem e Metodologia de Pesquisa, Juíz de Fora, MG, Brazil. (Poster)

Bonassi, F. V., **Nishimura, R.**, Stern, R. B. (2011). In Defense of Randomization: a Subjectivist Bayesian Approach. Poster presented at the Fourth Michigan Student Symposium for Interdisciplinary Statistical Sciences, Ann Arbor, MI, USA.

Bonassi, F. V., **Nishimura, R.**, Stern, R. B. (2009). In Defense of Randomization: a Subjectivist Bayesian Approach. Paper presented at the 29th International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering, Oxford, MS, USA.

Nishimura, R., Barroso, L. P., Wagner, G. A., Andrade, A. G. (2009). Uma Aplicação de Amostragem por Multiplicidade: Plano Amostral do Projeto Álcool e Drogas – III Levantamento Sobre Atitudes e Uso Entre Alunos da Universidade de São Paulo – Campus São Paulo. Poster presented at the II Escola de Amostragem e Metodologia de Pesquisa, Natal, RN, Brazil.

Grants and Fellowships

- 2015** Winner, Student Travel Grant, 2015 International Total Survey Error Conference
- 2014** Winner, Survey Research Methods Section Student Travel Award, Joint Statistical Meetings of the American Statistical Association
- 2013** Winner, Graybill Student Paper Competition, Graybill Conference, Colorado State University – Fort Collins.
- 2013** Recipient, Rackham One-Term Dissertation Fellowship, Rackham Graduate School, Michigan Program in Survey Methodology, University of Michigan.
- 2012 - 2013** Recipient, Harvey G. and Joyce H. Behner Graduate Fellowship, Rackham Graduate School, Michigan Program in Survey Methodology, University of Michigan.
- 2011 - 2014** Recipient, Rackham Conference Travel Grant, University of Michigan.
- 2011 - 2013** Recipient, Travel Award, Michigan Program in Survey Methodology, University of Michigan.
- 2005** Recipient, CNPq Grant for “Initiation to Scientific Research”. Research about Conjoint Analysis, Universidade de São Paulo.

Professional Service

Journal Referee/Reviewer

International Statistical Review, Journal of Official Statistics, Public Opinion Quarterly,
Field Methods

Conferences

Michigan Program in Survey Methodology representative, Student committee responsible
for the 7th Michigan Student Symposium in Interdisciplinary Statistical Sciences (MSSISS,
March 2013, http://sitemaker.umich.edu/mssiss/mssiss_2013)

Software Expertise

Statistical software: R, SPSS, SAS, Minitab, Stata, SUDAAN, HLM, IVEware.

Microsoft Office: Word, Excel, Power Point, Access.

Programming languages: Java, C, VBA, Python.

Language Proficiency

Native in Portuguese; Fluent in English; Basic Spanish and German.