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**NANSI S. BOGHOSSIAN, PhD, MPH**

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**EDUCATION**

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- July 2011                      PhD, Epidemiology  
College of Public Health, University of Iowa, Iowa City, IA  
Title: Survival and morbidities among very low birth weight infants with chromosomal anomalies  
Advisor: Jeffrey C. Murray, MD
- February 2006                      Masters of Public Health, Epidemiology & Biostatistics  
Faculty of Health Sciences, American University of Beirut (AUB), Beirut, Lebanon  
Title: Prevalence, risk factors and serotype distribution of Group B Streptococcus Colonization among pregnant women in Beirut, Lebanon  
Advisor: Khalid Yunis, MD
- June 2004                      Bachelor of Science, Medical Laboratory Sciences (with distinction),  
Faculty of Arts & Sciences, Haigazian University, Beirut, Lebanon

**WORK EXPERIENCE**

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- Sept 2011 - present                      **Intramural Research Training Award (IRTA) Post-doctoral Fellow**  
Epidemiology Branch, Division of Intramural Population Health Research,  
*Eunice Kennedy Shriver* National Institute of Child Health and Human  
Development, National Institutes of Health, Bethesda  
Supervisor: Edwina Yeung
- March 2009 - Aug 2011                      **Graduate Research Assistant**  
Department of Pediatrics, College of Medicine, University of Iowa, Iowa City, IA  
Supervisor: Jeffrey C. Murray
- Jan 2009 - May 2010                      **Graduate Research Assistant**  
Department of Communication Sciences and Disorders, College of Liberal Arts  
and Sciences, University of Iowa, Iowa City, IA  
Supervisor: Bruce Tomblin
- Sept 2008 - Dec 2008                      **Graduate Research Assistant & Teaching Assistant for Epidemiology I**  
Department of Epidemiology, College of Public Health, University of Iowa, Iowa  
City, IA  
Supervisor: Paul Romitti  
*Project:* Reproductive Molecular Epidemiology Research and Education Program
- Sept 2007 - Aug 2008                      **Graduate Research Assistant**  
Department of Epidemiology, College of Public Health, University of Iowa, Iowa  
City, IA  
Supervisor: Paul Romitti  
*Project:* Reproductive Molecular Epidemiology Research and Education Program
- Sept 2005 - July 2007                      **Research Assistant**

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Department of Pediatrics, Faculty of Medicine, American University of Beirut  
Medical Center (AUBMC), Beirut, Lebanon

Supervisor: Khalid Yunis

*Projects:* National Collaborative Perinatal Neonatal Network (NCPNN)

- NCPNN Database Project
- Implementation of an intervention to reduce the cesarean section rate: A collaborative multicenter study in Beirut
- Group B Streptococcal colonization among pregnant women and their neonates in Beirut
- The epidemiology of cytomegalovirus in Lebanon: a multicenter study

Sept 2004 – Aug 2005

**Graduate Research Assistant**

Department of Medical Laboratory Sciences, Faculty of Health Sciences,  
American University of Beirut (AUB), Beirut, Lebanon

Supervisor: Sami Ramia

**AWARDS**

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2011 Intramural Research Training Award

2011 University of Iowa travel award to the Pediatric Academic Societies (PAS) Conference

2011 Western Regional Maternal and Child Health Epidemiology (MCH EPI) Conference Sponsorship award

2010 NICHD/IHDCYH Summer Institute in Reproductive and Perinatal Epidemiology, Selected student

2004 Honors award, Haigazian University, Beirut, Lebanon

**FUNDING**

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Obtained NICHD intramural funding under the supervision of Dr. Edwina Yeung (June 2013). Title “Maternal vitamin D status and measures of neonatal bone mineral content/density, body fat and birthweight”. Amount \$97,075.

**LEADERSHIP AND PROFESSIONAL SERVICE**

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2012-2013 Coordinator, Reproductive Epidemiology Journal Club, NICHD

June 2013 Toastmasters’ NIH Evening Speakers Vice President of Education

May 2013 Reviewed papers for the Heinz Berendes international travel award for the *Society for Perinatal Epidemiologic Research (SPER)*

March 2013 Reviewed abstracts submitted to the *Society for Epidemiologic Research (SER)* and the *Society for Perinatal Epidemiologic Research (SPER)*

June 2012 Toastmasters’ NIH Evening Speakers Vice President of Membership

Dec 10, 2012 “National Institutes of Health Epidemiology & Population Science Career Symposium” Rockville, MD  
Tasks: A member of the 6 planning committee members to organize a career symposium for epidemiology fellows

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March 2011 Reviewed abstracts submitted to the *Society for Epidemiologic Research (SER)* and the *Society for Perinatal Epidemiologic Research (SPER)*

March 2010 Reviewed abstracts submitted to the *Society for Epidemiologic Research (SER)* and the *Society for Perinatal Epidemiologic Research (SPER)*

April 2007 Reviewed over 70 abstracts submitted to the *3rd International Conference on Birth Defects and Disabilities in the Developing World*, June 2007, sponsored by the March of Dimes Foundation

May 12-13, 2006 "National Collaborative Perinatal Neonatal Network (NCPNN) annual meeting", Beirut, Lebanon  
Surveillance Systems: development, applications and their role in defining health problems, implementing targeted interventions, setting policies, improving quality of care and their role in accreditation.

Tasks: Analysis of the NCPNN five-year statistics disseminated during the meeting

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## PROFESSIONAL AFFILIATIONS

Society for Epidemiologic Research (SER)

Society for Pediatric & Perinatal Epidemiologic Research (SPER)

Society for Pediatric Research (SPR)

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## TEACHING EXPERIENCE

Division of Intramural Population Health Research, NICHD, Rockville, MD

Lecturer, Summer 2013

Course: Reproductive Epidemiology

Division of Intramural Population Health Research, NICHD, Rockville, MD

Lecturer, Summer 2012

Course: Reproductive Epidemiology

Department of Epidemiology, College of Public Health, University of Iowa, Iowa City, IA

Teaching Assistant for Epidemiology I, Fall 2008

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## MENTORING EXPERIENCE

July-Aug 2013 NIH summer volunteer, Jji Jiang, masters student, Georgetown University • Gestational weight gain and other pregnancy factors and postpartum maternal adiposity

June-Aug 2012 NIH summer intern, Anna Poon, masters student, Johns Hopkins Bloomberg School of Public Health • Maternal diet in association with birth weight and infant growth

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## PUBLICATIONS

A. *Published manuscripts/in press*

1. **Nansi S. Boghossian**, Edwina Yeung, Paul S. Albert, Pauline Mendola, Katherine Laughon, Stefanie Hinkle, Cuilin Zhang. Change in diabetes status between pregnancies and impact on newborn outcomes. (In press *American Journal of Obstetrics and Gynecology*).
2. **Nansi S. Boghossian**, Nellie I. Hansen, Edward F. Bell, Barbara J. Stoll, Jeffrey C. Murray, John C. Carey, Ira Adams-Chapman, Seetha Shankaran, Michele C. Walsh, Abbot R. Laptook, Roger G. Faix, Nancy S. Newman, Ellen

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- C. Hale, Abhik Das, Leslie S. Wilson, Angelita M. Hensman, Cathy Grisby, Monica V. Collins, Diana M. Vasil, Joanne Finkle, Deanna Maffett, M. Bethany Ball, Conra B. Lacy, Rebecca Bara, Rosemary D. Higgins, for the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development Neonatal Research Network. Mortality and morbidity of VLBW infants with trisomy 13 or trisomy 18. (In press *Pediatrics*).
3. Stefanie N. Hinkle, Paul S. Albert, Pauline Mendola, Lindsey A. Sjaarda, Edwina Yeung, **Nansi S. Boghossian**, S. Katherine Laughon. The association between parity and birthweight in a longitudinal consecutive pregnancy cohort. (In press *Pediatric and Perinatal Epidemiology*).
  4. Ira Adams-Chapman, Nellie I. Hansen, Seetha Shankaran, Edward F. Bell, **Nansi S. Boghossian**, Jeffrey C. Murray, Abbot R. Luptook, Michele C. Walsh, Waldemar A. Carlo, Pablo J. Sánchez, Krisa P. Van Meurs, Abhik Das, Ellen C. Hale, Nancy S. Newman, M. Bethany Ball, Rosemary D. Higgins, Barbara J. Stoll, for the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development Neonatal Research Network. Ten year review of major birth defects in very low birth weight infants. *Pediatrics* 2013 Jul; 132(1): 49-61. [PMCID:PMC23733791].
  5. **Nansi S. Boghossian**, Edwina Yeung, Leah M. Lipsky, Anna K. Poon, Paul S. Albert. Dietary patterns in association with postpartum weight retention. *Am J Clin Nutr* 2013 Jun; 97(6): 1338-45. [PMCID:PMC23576044].
  6. **Nansi S. Boghossian**, Grier P. Page, Edward F. Bell, Barbara J. Stoll, Jeffrey C. Murray, Michael Cotten, Seetha Shankaran, Michele C. Walsh, Abbot R. Luptook, Nancy S. Newman, Ellen C. Hale, Scott A. McDonald, Abhik Das, Rosemary D. Higgins, for the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development Neonatal Research Network. Late-Onset Sepsis in Very Low Birth Weight Infants from Singleton and Multiple Gestation Births. *J Pediatr*. 2013 Jun; 162(6): 1120-1124.e1. [PMCID:PMC23324523].
  7. **Nansi S. Boghossian**, Edwina Yeung, Sunni Mumford, Cuilin Zhang, Audrey Gaskins, Jean Wactawski, Enrique Schisterman. Adherence to the Mediterranean diet and body fat distribution in reproductive aged women. *Eur J Clin Nutr*. 2013 Mar; 67(3):289-94. [PMCID:PMC3594052].
  8. Athina Pappas, Seetha Shankaran, Nellie I. Hansen, Edward F. Bell, Barbara J. Stoll, Abbot R. Luptook, Michele C. Walsh, Abhik Das, Rebecca Bara, Ellen C. Hale, Nancy S. Newman, **Nansi S. Boghossian**, Jeffrey C. Murray, C. Michael Cotten, Ira Adams-Chapman, Shannon Hamrick, Rosemary D. Higgins, for the Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Outcome of extremely preterm infants (<1000g) with congenital heart defects from the NICHD Neonatal Research Network. *Pediatr Cardiol*. 2012 Dec; 33(8):1415-26. [PMCID:PMC22644414].
  9. **Nansi S. Boghossian**, Jeffrey D. Horbar, Joseph H. Carpenter, Jeffrey C. Murray, Edward F. Bell, for the Vermont Oxford Network. Major chromosomal anomalies among very low birth weight infants in the Vermont Oxford Network. *J Pediatr* 2012 May; 160(5):774-780.e11. [PMCID:PMC22177989].
  10. **Nansi S. Boghossian**, Jeffrey D. Horbar, Jeffrey C. Murray, Joseph H. Carpenter, for the Vermont Oxford Network. Anthropometric charts for infants with trisomies 21, 18 and 13 born between 22 weeks gestation and term: The VON charts. *Am J Med Genet A* 2012 Feb; 158A(2):322-32. [PMCID:PMC22246859].
  11. **Nansi S. Boghossian**, Nellie I. Hansen, Edward F. Bell, Barbara J. Stoll, Jeffrey C. Murray, Abbot R. Luptook, Seetha Shankaran, Michele C. Walsh, Abhik Das, Rosemary D. Higgins, for the NICHD Neonatal Research Network. Survival and morbidity outcomes of very low birth weight infants with Down syndrome. *Pediatrics* 2010 Dec; 126(6): 1132-1140. [PMCID:PMC21098157].
  12. Seoud M, Nassar AH, Zalloua P, **Boghossian N**, Ezzedine J, Fakhoury H, Abboud J, Melki I, Araj G, Nacouzi G, Sanyoura M, Yunis K. Prenatal and neonatal Group B Streptococcus screening and serotyping in Lebanon: incidence and implications. *Acta Obstet Gynecol Scand* 2010 Mar; 89(3): 399-403. [PMCID:PMC20199356].

*B. Papers under review/in progress*

13. Stefanie N. Hinkle, Paul S. Albert, Pauline Mendola, Lindsey A. Sjaarda, **Nansi S. Boghossian**, Edwina Yeung, S. Katherine Laughon. Differences in risk factors for incident and recurrent small-for-gestational-age birthweight.
14. **Nansi S. Boghossian**, Edwina Yeung, Pauline Mendola, Katherine Laughon, Stefanie Hinkle, Cuilin Zhang, Paul S. Albert. Risk factors differ between recurrent and incident preeclampsia.
15. Edwina Yeung, Candace Robledo, **Nansi S. Boghossian**, Cuilin Zhang, Pauline Mendola. Developmental origins of cardiovascular disease.
16. Edwina Yeung, Candace Robledo, **Nansi Boghossian**, Erin Bell, Enrique Schisterman. Causal effect of assisted reproductive technology (ART) on neurodevelopmental impairment.

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17. **Nansi S. Boghossian**, Edwina Yeung, Paul S. Albert, Pauline Mendola, Katherine Laughon, Stefanie Hinkle, Cuilin Zhang. Risk factors for transitioning between different types of hypertensive disorders between pregnancies.
18. **Nansi S. Boghossian**, Saha Shampa, Edward F. Bell, and members of the GDB and Follow-Up Subcommittees. Birthweight discordance in very low birth weight twins: impact on mortality, morbidity, and neurodevelopmental outcomes.
19. **Nansi S. Boghossian**, Nellie I. Hansen, Edward F. Bell, and members of the GDB and Follow-Up Subcommittees. Mortality, morbidity, and neurodevelopmental outcomes of very low birth weight infants born to insulin-dependent diabetic mothers.
20. Anna Poon, Edwina Yeung, **Nansi S. Boghossian**, Paul Albert, Cuilin Zhang. Maternal diet quality in association with birthweight characteristics and early infant growth.
21. Edwina Yeung, Cuilin Zhang, **Nansi Boghossian**, Winston Koo. Determinants of neonatal body adiposity assessed by dual energy x-ray absorptiometry.

*C. Presentations*

1. Hinkle S, Albert P, Mendola P, Sjaarda L, **Boghossian N**, Yeung E, Laughon S.K. Platform presentation at the Fetal Growth Meeting, Baltimore, September 2013.
2. **Boghossian N**, Yeung E, Mendola P, Laughon S.K, Hinkle S, Zhang C, Albert P. Recurrence of hypertensive disorders and subsequent fetal growth restriction. Platform presentation at the Fetal Growth Meeting, Baltimore, September 2013.
3. Yeung E, Mills J, Zhang C, **Boghossian N**, Robledo C, Mendola P. Maternal copeptin levels are not associated with infant birthweight. Platform presentation at the Fetal Growth Meeting, Baltimore, September 2013.
4. **Boghossian N**, Yeung E, Albert P, Mendola P, Laughon K, Zhang C. Recurrence of gestational hypertensive disorders and impact on newborn outcomes. Platform presentation at the Society for Pediatric and Perinatal Epidemiologic Research, Boston, June 2013.
5. **Boghossian N**, Yeung E, Albert P, Mendola P, Laughon K, Hinkle S, Zhang C. Change in diabetes status and impact on newborn outcomes. Platform presentation at the Pediatric Academic Societies, Washington, DC, May 2013.

*D. Posters*

1. Yeung E, Liu A, Mills J, Zhang C, Mannisto T, **Boghossian N**, Robledo C, Mendola P. Copeptin levels are elevated in women prior to diagnosis of clinical pre-eclampsia. To be presented at the Society for Maternal-Fetal Medicine, New Orleans, LA, February 2014 (Poster).
2. Yeung E, Robledo C, **Boghossian N**, Bell E, Schisterman E. Causal effect of assisted reproductive technology (ART) on neurodevelopmental impairment. Presented at the American Society for Reproductive Medicine, October 2013 (Poster).
3. Hinkle SN, Laughon SK, Sjaarda LA, Mendola P, **Boghossian N**, Yeung E, Albert PS. The association between parity and birthweight in a longitudinal consecutive pregnancy cohort. Presented at the Society for Epidemiologic Research and the Society for Pediatric and Perinatal Epidemiologic Research, Boston, June 2013 (Poster).
4. **Boghossian N**, Yeung E, Albert P, Mendola P, Laughon K, Zhang C. Recurrence of gestational hypertensive disorders and impact on newborn outcomes. Presented at the Society for Epidemiologic Research, Boston, June 2013 (Poster).
5. **Boghossian N**, Yeung E, Albert P, Mendola P, Laughon K, Zhang C. Change in diabetes status between pregnancies and impact on newborn outcomes. Presented at the Society for Epidemiologic Research and the Society for Pediatric and Perinatal Epidemiologic Research, Boston, June 2013 (Poster).
6. **Boghossian N**, Yeung E, Albert P, Zhang C. Maternal adherence to the Mediterranean diet in association with offspring birthweight and infant growth. Presented at the Obesity Society, San Antonio, Texas, September 2012 (Poster).
7. Yeung E, **Boghossian N**, Zhang C, Koo W. Determinants of neonatal body adiposity assessed by dual energy x-ray absorptiometry. Presented at the Obesity Society, San Antonio, Texas, September 2012 (Poster).
8. **Boghossian N**, Yeung E, Mumford S, Zhang C, Gaskins A, Wactawski-Wende J, Schisterman E. Adherence to the Mediterranean diet and body fat in premenopausal women: the BioCycle study. Presented at the Society for

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- Epidemiologic Research and the Society for Pediatric and Perinatal Epidemiologic Research, Minnesota, June 2012 (Poster).
9. **Boghossian N**, Yeung E, Lipsky L, Albert P. Mediterranean diet and postpartum weight retention. Presented at the Division for Intramural Research, National Institutes of Child Health and Human Development, Bethesda, May 2012 (Poster).
  10. **Boghossian N**, Hansen N, NICHD Neonatal Research Network. Mortality and morbidity of very low birth weight infants with Trisomy 18 and Trisomy 13. Presented at the Pediatric Academic Societies, Colorado, May 2011 (Poster).
  11. **Boghossian N**, Horbar J, Carpenter J, Murray J, Edward F. Bell. Major chromosomal anomalies among very low birth weight infants in the Vermont Oxford Network. Presented at The Vermont Oxford Network Annual Meeting and Quality Congress, Washington, December 2010 (Poster).
  12. **Boghossian N**, Hansen N, NICHD Neonatal Research Network. Survival and morbidity outcomes of very low birth weight infants with Down syndrome. Presented at the Pediatric Academic Societies, Vancouver, May 2010 (Poster).
  13. **Boghossian N**, Page G, NICHD Neonatal Research Network. Familial and genetic susceptibility to sepsis in very low birth weight twins. Presented at the Pediatric Academic Societies, Vancouver, May 2010 (Poster).
  14. **Boghossian N**, Romitti PA, Leslie D. Pesticides and cardiovascular malformations: a meta-analysis. Presented at the Society for Epidemiologic Research and the Society for Pediatric and Perinatal Epidemiologic Research, Chicago, June 2008 (Poster).
  15. Mroueh S, **Boghossian N**, Mumtaz G, Kassab M, Matar M, Yunis K. Does Iron Supplementation in Infants Increase the Risk of Wheezing? Presented at the Pediatric Academic Societies, Hawaii, May 2008 (Poster).
  16. Mumtaz G, **Boghossian N**, Nabulsi M, Waked R, Hoblos F, Yunis K. Consanguinity and congenital malformations in Lebanon, a Case Control Study. Presented at the Third International Conference on Birth Defects and Disabilities in the Developing World, Brazil, June 2007 and at the Pediatric Academic Societies, Hawaii, May 2008 (Poster).
  17. Melki I, Mumtaz G, **Boghossian N**, Kassab M, Jbeili N, Makhoul G, Yunis K. Temporal Variations in the Prevalence of Birth Defects among Newborns in Beirut, Lebanon. Presented at the Third International Conference on Birth Defects and Disabilities in the Developing World, Brazil, June 2007 (Poster).
  18. Yunis K, Mumtaz G, Cortas N, Tanios R, **Boghossian N**, Ibrahim G, Daher R. A neonatal screening program in Beirut, Lebanon: Results of ten year experience. Presented at Hot Topics in Neonatology, Washington DC, December 2006 (Poster).
  19. Yunis K, Mumtaz G, **Boghossian N**, Matar M, Howson C. Needs Assessment for Establishing Newborn Screening Program: Results of a Pilot Study in Lebanon. Presented at Strengthening Newborn Screening in the Middle East and North Africa, Marrakech, Morocco, November 2006 (Poster).
  20. Fahed D, **Boghossian N**, Mumtaz G, Nakad P, Yunis K. Consanguinity and retinopathy of prematurity. Presented at the Society of Pediatric Research, May 2006 (Poster).
  21. Yunis K, Seoud M, Zalloua P, **Boghossian N**, Nassar A, Araj G, Abboud J, Ezzeddine J, Tamim H. Prevalence, risk factors and serotype distribution of Group B Streptococcus (GBS) colonization among pregnant women in Beirut, Lebanon. National Collaborative Perinatal Neonatal Network (NCPNN). Presented at the Pediatric Academic Societies, San Francisco, California, April 2006 (Poster).

#### **EDITORIAL ACTIVITIES AD HOC PEER REVIEWER**

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November 2013 *Archives of Disease in Childhood*

October 2013 *Pediatrics*

September 2013 *BMC Endocrine Disorders*

August 2013 *British Journal of Nutrition*

July 2013 *PLOS ONE*

February 2013 *Fertility and Sterility*

March 2012 *Journal of Perinatology and American Journal of Medical Genetics.*

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## **REPORTS**

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“National Collaborative Perinatal Neonatal Network: NCPNN Sixth Annual Report, January 1<sup>st</sup> 2005-December 31<sup>st</sup> 2005”, May 2006. One general NCPNN report and sixteen individual reports for each of the network hospitals.  
“National Collaborative Perinatal Neonatal Network: NCPNN Fifth Annual Report, January 1<sup>st</sup> 2004-December 31<sup>st</sup> 2004”, December 2005. One general report and sixteen individual reports for each of the network hospitals.

## **PROFESSIONAL DEVELOPMENT**

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2013 Embryology, Developmental Biology and Human Malformations (Gene 505)  
2012 Epigenetics and Medical Disorders (Biol 338)  
2012 Scientists Teaching Science Course, Office of Intramural Training and Education NIH,  
2012 Presentation Training, Oratorio Media and Presentation Training, Washington, DC, Aug 9, 2012  
2011 Media Training, Oratorio Media and Presentation Training, Washington DC, Nov 2, 2011

## **LANGUAGES**

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Fluent in English and Arabic  
Fair knowledge of Armenian and French

## **COMPUTER LITERACY**

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Word  
Excel  
PowerPoint  
Statistical Package for the Social Sciences (SPSS)  
STATA  
SAS