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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                Master 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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- August 2020-present            **Associate Professor**  
Department of Epidemiology and Biostatistics, Arnold School of Public Health, Columbia, SC
- August 2014 -August 2020      **Assistant Professor (tenure track)**  
Department of Epidemiology and Biostatistics, Arnold School of Public Health, Columbia, SC
- Sept 2011 - August 2014        **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, MD  
Supervisor: Edwina Yeung
- March 2009 - August 2011       **Graduate Research Assistant**  
Department of Pediatrics, College of Medicine, University of Iowa, Iowa City, IA  
Supervisor: Jeffrey C. Murray
- January 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           **Teaching Assistant for Epidemiology I**  
Department of Epidemiology, College of Public Health, University of Iowa, Iowa City, IA
- Sept 2007 - Dec 2008           **Graduate Research Assistant**

Department of Epidemiology, College of Public Health, University of Iowa, Iowa City, IA  
Supervisor: Paul Romitti

## **WORK EXPERIENCE**

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Sept 2005 - July 2007

### **Research Assistant**

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 – August 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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2016 Society for Pediatric Research elected member

2011 NIH 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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### **CURRENTLY FUNDED**

#### ***Extramural***

National Institute on Minority Health and Health Disparities (NIMHD) R01 (September 2020-June 2025). 'Hospital quality, Medicaid expansion, and racial/ethnic disparities in maternal mortality and morbidity' (PI: Boghossian).

National Institute of Child Health and Human Development (NICHD) R03HD097305 (January 2019-December 2020). 'Racial/ethnic disparities in care practices, outcomes, and hospital transfer among infants born at 22-29 weeks' gestation' (PI: Boghossian).

**PREVIOUSLY FUNDED*****Extramural***

Bill and Melinda Gates Foundation (June 2015-August 2019). 'Preterm birth prediction and gestational age assessment at birth' (PI: Boghossian).

Bill and Melinda Gates Foundation (November 2014-May 2014). 'Global partnerships: establishing global networks of experts for sample sharing in lower income countries to speed the discovery of biomarkers critical to maternal, fetal, and newborn health' (PI: Boghossian).

***Intramural***

ASPIRE-I University of South Carolina (April 2015-May 2018). 'Impact of a lifestyle intervention among overweight/obese pregnant women on cardiometabolic biomarkers' (PI: Boghossian).

ASPIRE-I University of South Carolina (January 2017). 'BiPe Charts – Bivariate percentiles for anthropometric charts in preterm infants' (Co-I: Boghossian; PI: Geraci M).

National Institute of Child Health and Human Development (NICHD) intramural funding (June 2013). 'Maternal vitamin D status and measures of neonatal bone mineral content/density, body fat and birthweight'.

**LEADERSHIP AND SERVICE**

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**INSTITUTIONAL SERVICE*****Department of Epidemiology***

Member, curriculum committee (2017-present)

Member, admissions committee for masters and doctoral students (2015-present)

Coordinator, epidemiology departmental seminars, University of South Carolina (2015-2018)

Coordinator, reproductive epidemiology journal club, NICHD (2012-2013)

**PROFESSIONAL SERVICE*****Professional Meetings***

Reviewer, abstracts to the *Pediatric Academic Societies (PAS)* (2017, 2020)

Reviewer, abstracts to the *Society for Epidemiologic Research (SER)* (2010, 2011, 2013, 2014, 2018)

Reviewer, abstracts to the *Society for Pediatric and Perinatal Epidemiologic Research (SPER)* (2010, 2011, 2013, 2014, 2015, 2016, 2018)

Session co-chair, 'Biorepositories and Surveillance', *Bill and Melinda Gates Foundation Grand Challenges Annual Meeting*, Beijing, China (Oct 2015)

Moderator, 'Medical Genetics in Newborns', *Vermont Oxford Network (VON) Annual Quality Congress*, Chicago, IL (Oct 2015)

Organizer, 'Biorepository meeting' for AMANHI and GAPPS funded sites by the *Bill and Melinda Gates Foundation*, London, UK (April 2015)

Organizer, 'Exposome' Symposium, *Society for Epidemiologic Research (SER)*, Seattle, WA (June 2014)

Reviewer, papers for the Heinz Berendes international travel award for the *Society for Pediatric and Perinatal Epidemiologic Research (SPER)* (May 2013)

Reviewer, abstracts to the *3rd International Conference on Birth Defects and Disabilities in the Developing World*, June 2007, sponsored by the March of Dimes Foundation (April 2007)

### **Grant Reviews**

Letter of intent to the *March of Dimes Research Grant RFA* (2019)

Proposals to *USAID* for Saving Lives at Birth (SL@B) (2015, 2016)

Proposals to the *Bill and Melinda Gates Foundation* for Grand Challenges 'Creating & Measuring Integrated Solutions for Healthy Birth, Growth & Development- All Children Thriving' (2015)

### **Editorial Activities Ad hoc Peer Reviewer**

2020-	Paediatric and Perinatal Epidemiology
2020-	BMC Health Services Research
2019-	Clinical Epidemiology
2019-	Obesity Reviews
2019-	BMC Medicine
2019-	The Journal of the Academy of Nutrition and Dietetics
2019-	The Journal of Perinatology
2019-	The Journal of Nutrition
2019-	BMJ Paediatrics Open
2018-	BMJ
2018-	Journal of Women and Aging
2018-	BMJ Open
2018-	The Journal of Pediatrics
2018-	BMC Pediatrics
2017-	Journal of Child Health Care
2017-	Human Reproduction
2017-	Birth
2017-	The American Journal of Obstetrics & Gynecology
2017-	JAMA Pediatrics
2016-	Scientific Reports
2016-	Diabetology and Metabolic Syndrome
2016-	BMC Pregnancy and Childbirth
2014-	Birth Defects Research Part A: Clinical and Molecular Teratology
2014-	Annals of Epidemiology
2014-	Maternal and Child Health Journal
2013-	BMC Public Health
2013-	Archives of Disease in Childhood
2013-	Pediatrics
2013-	BMC Endocrine Disorders
2013-	British Journal of Nutrition
2013-	PLOS ONE
2013-	Fertility and Sterility
2012-	American Journal of Perinatology
2012-	American Journal of Medical Genetics

### **Other**

Member, GAIA Small for gestational age working group, GAIA Fetal growth restriction working group, GAIA Neurodevelopmental delay working group, GAIA Chorioamnionitis working group, Brighton Collaboration (2016, 2018)

Member of the 6 planning committee members to organize a career symposium for epidemiology fellows, *National Institutes of Health Epidemiology & Population Science Career Symposium*, Rockville, MD (2012)

## **PROFESSIONAL AFFILIATIONS**

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Society for Epidemiologic Research (SER)

Society for Pediatric & Perinatal Epidemiologic Research (SPER)

Society for Pediatric Research (SPR)

## **TEACHING**

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### **University of Maryland**

Guest lecturer, Birth Defects. University of Maryland. FMSC 612: Reproductive and Perinatal Epidemiology. College Park, MD, March 2019, March 2020.

### **University of South Carolina**

Instructor, *Methods in Reproductive and Perinatal Epidemiology (EPID 865)*, Spring 2020

Instructor, *Clinical and Population Research Protocol Development and Implementation (EPID 721)*, Fall 2019

Instructor, *Applied Epidemiology in Public Health (EPID 758)*, Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019

Instructor, *Reproductive and Perinatal Epidemiology (EPID 765)*, Spring 2016, Spring 2020

Instructor, *Seminar in Epidemiology (Scientific Writing) (EPID 745)*, Spring 2015, Spring 2017

Guest lecturer, *Seminar in Epidemiology (EPID 745)*, 'The power of effective communication', Fall 2014, Fall 2015, Fall 2016

### **Intramural Population Health Research, NICHD**

Lecturer, *Reproductive Epidemiology*, Summer 2012, Summer 2013, Summer 2014

### **University of Iowa**

Teaching Assistant, Epidemiology I, Fall 2008

## **STUDENT MENTORING**

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### **PRIMARY ADVISOR**

#### ***Doctoral Students***

Amanda Elmore, The Behavioral-Biomedical Interface Program (BBIP), PhD Mentor, 2018-present

Maria Sevoyan, Epidemiology PhD Dissertation Chair-Epidemiology Outstanding Doctoral Student Award, 'Optimal pregnancy outcomes and subsequent postnatal development', 2020

#### ***Master's Students***

Kerry Spillane, Epidemiology MSPH Thesis Chair, 'Weight gain in twin pregnancies: associations with adverse maternal outcomes', 2017

Brittany Sullivan, Epidemiology MSPH Thesis Chair, 'Influence of thyroid disorders on pregnancy outcomes', 2016

Chelsea Lynes, Epidemiology MSPH Thesis Chair, 'Interpregnancy weight change and adverse maternal outcomes', 2015

### ***Graduate Research Assistants***

Maria Sevoyan, Graduate Research Assistant, PhD Epidemiology (August-December 2019)

Maria Sevoyan, Graduate Research Assistant, PhD Epidemiology (Nov 2016-Dec 2018)

Tahmidul Islam, Graduate Research Assistant, PhD Statistics (May-Aug 2017)

Kerry Spillane, Graduate Research Assistant, MSPH Epidemiology (Aug 2016-Aug 2017)

Melanie Sutherland, Graduate Research Assistant, PhD Epidemiology (Aug 2016-May 2017)

Olubunmi Orekoya, Graduate Research Assistant, PhD Epidemiology (Jan 2015-Jan 2016)

### **MEMBERSHIP ON STUDENT COMMITTEES**

#### ***Doctoral Students***

Mohiuddin Chowdhury, Epidemiology PhD Dissertation Committee Member, 'Association of NSAIDs and acetaminophen use during pregnancy and autism', 2020-present

Chelsea Lynes, Epidemiology PhD Dissertation Committee Member, 'Opioid use among reproductive age women with disabilities', 2018-present

Olubunmi Orekoya, Epidemiology PhD Dissertation Committee Member, 'Early life exposure and health outcomes in early childhood', 2016

Junxiu Liu, Epidemiology PhD Dissertation Committee Member, 'The prenatal and early life risk factors on childhood anthropometrics and growth and the development of obesity', 2016

#### ***Master's Students***

Andrew Broadway, Epidemiology MSPH Thesis Committee Member, 'Physical activity during pregnancy', 2018

Maggie McCarter, Epidemiology MSPH Thesis Committee Member, 'Gestational infections and obesity: implications for intellectual disability risk', 2018

Xinyan Cai, Biostatistics MSPH Thesis Committee Member, 'Longitudinal and geographical modeling of circular data with an application to sudden infant death', 2017

Kristen Polinski, Epidemiology MSPH Thesis Committee Member, 'Gestational weight gain and childhood asthma', 2015

### **VOLUNTEERS**

NIH summer volunteer, Jiji Jiang, master's student, Georgetown University, 'Gestational Weight gain and other pregnancy factors and postpartum maternal adiposity', (July-Aug 2013)

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

### **PEER-REVIEWED PUBLICATIONS**

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#### ***A. PUBLISHED MANUSCRIPTS/IN PRESS***

1. **Boghossian NS**, Geraci M, Edwards EM, Ehret D, Saade G, Horbar JD. Regional and Racial and Ethnic Differences in Perinatal Interventions among Periviable Births. *Obstet Gynecol* 2020 Apr;135(4):885-895.

2. Villagomez AN, Munoz FM, Peterson RL, Colbert AM, Gladstone M, MacDonald B, Wilson R, Fairlie L, Gerner GJ, Patterson J, **Boghossian NS**, Burton VJ, Cortes M, Katikaneni LD, Kochhar S, Larson JCG, Angulo AS, Joshi J, Negin M, Padula MA, Kochhar S, Connery AK, Brighton Collaboration Neurodevelopmental Delay Working Group. Neurodevelopmental Delay: Case Definition & Guidelines for Data Collection, Analysis, and Presentation of Immunization Safety Data. *Vaccine* 2019 Dec;37(52):7623-7641. [PMID: 31783983].
3. Kachikis A, Eckert LO, Walker C, Bardají A, Varricchio F, Lipkind HS, Diouf K, Huang WT, Mataya R, Bittaye M, Cutland C, **Boghossian NS**, Moore MT, McCall R, King J, Mundle S, Munoz FM, Rouse C, Gravett M, Katikaneni L, Ault K, Klein NP, Roberts DJ, Kochhar S, Chescheir N, Brighton Collaboration Chorioamnionitis Working Group. Chorioamnionitis: Case Definition & Guidelines for Data Collection, Analysis, and Presentation of Immunization Safety Data. *Vaccine* 2019 Dec;37(52):7610-7622. [PMID: 31783982].
4. Geraci M, **Boghossian NS**, Farcomeni A, Horbar JD. Quantile contours and allometric modelling for risk classification of abnormal ratios with an application to asymmetric growth-restriction in preterm infants. *Stat Methods Med Res* 2019 Sep. [PMID: 31544622].
5. **Boghossian NS**, Geraci M, Lorch SA, Phibbs CS, Edwards EM, Horbar JD. Racial and Ethnic Differences Over Time in Outcomes of Infants Born Less than 30 Weeks' Gestation. *Pediatrics* 2019 Sep;144(3). [PMID: 31405887].  
Accompanying editorial available at:  
<https://pediatrics-aappublications-org.pallas2.tcl.sc.edu/content/early/2019/08/08/peds.2019-2002>
6. **Boghossian NS**, Saha S, Bell EF, Brumbaugh J, Shankaran S, Carlo WA, Das A, for the Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Birth weight discordance in very low birth weight twins: mortality, morbidity, and neurodevelopment. *J Perinatol* 2019 Sep;39(9):1229-1240. [PMID: 31312035].
7. Liu JX, **Boghossian NS**, Frongillo EA, Cai B, Hazlett L, Liu JH. Associations of maternal gestational weight gain with the risk of offspring obesity and body mass index Z scores beyond the mean. *Ann Epidemiol* 2019 Apr;32:64-71.e2. [PMID: 30799201].
8. **Boghossian NS**, Koo W, Liu A, Mumford SL, Tsai MY, Yeung EH. Longitudinal measures of maternal vitamin D and neonatal body composition. *Eur J Clin Nutr* 2019 Mar;73(3):424-431. [PMID: 29895850].
9. Liu JX, Liu J, Frongillo E, **Boghossian NS**, Cai B, Zhou H, Hazlett LJ. Body mass index trajectories during the first year of life and their determining factors. *Am J Hum Biol* 2019 Jan;31(1):e23188. [PMID: 30499610].
10. **Boghossian NS**, Geraci M, Edwards EM, Horbar JD. Sex Differences in Mortality and Morbidity of Infants Born at Less than 30 Weeks' Gestation. *Pediatrics* 2018 Dec;142(6).pii. e20182352. [PMID: 30429272].
11. **Boghossian NS**, Geraci M, Edwards EM, Horbar JD. Neonatal and fetal growth charts to identify preterm infants <30 weeks gestation at risk of adverse outcomes. *Am J Obstet Gynecol* 2018 Aug; 219(2):195.e1-195.e14. [PMID: 29750954].
12. **Boghossian NS**, Geraci M, Edwards EM, Horbar JD. In-hospital outcomes in large for gestational age infants at 22-29 weeks of gestation. *J Pediatr* 2018 Jul; 198:174-180.e13. [PMID: 29631772].
13. **Boghossian NS**, Sicko RJ, Giannakou A, Dimopoulos A, Caggana M, Tsai MY, Yeung E, Pankratz N, Cole BR, Romitti PA, Browne ML, Fan R, Liu A, Kay DM, Mills JL. Rare Copy number variants identified in Prune Belly Syndrome. *Eur J Med Genet* 2018 Mar; 61(3):145-151. [PMCID: PMC5803418].
14. **Boghossian NS**, Geraci M, Edwards EM, Horbar JD, for the Vermont Oxford Network. Morbidity and mortality in small for gestational age infants at 22 to 29 weeks' gestation. *Pediatrics* 2018 Feb; 141(2). [PMID: 29348195].
15. Lupton AR, Bell EF, Shankaran S, **Boghossian NS**, Wyckoff MH, Kandefer S, Walsh M, Saha S, Higgins R, and the Generic and Moderate Preterm Subcommittees of the NICHD Neonatal Research Network. Admission temperature and associated mortality and morbidity among moderately and extremely preterm infants. *J Pediatr* 2018 Jan; 192:53-59.e2. [PMCID: PMC5808888].

16. Schlaudecker EP, Munoz FM, Bardají A, **Boghossian NS**, Khalil A, Mousa H, Nesin M, Nisar I, Pool V, Spiegel HML, Tapia M, Kochar S, Black S. Small for gestational age: case definition and guidelines for data collection, analysis, and presentation of immunisation safety data. *Vaccine* 2017 Dec; 35(48 Pt A): 6518-6528. [PMCID:PMC5710996].
17. Easter SR, Eckert LO, **Boghossian NS**, Spencer R, Oteng-Ntim E, Ioannou C, Patwardhan M, Harrison MS, Khalil A, Gravett M, Goldenberg R, McKelvey A, Gupta M, Pool V, Robson SC, Joshi J, McElrath T, The Brighton Collaboration Fetal Growth Restriction Working Group. Fetal growth restriction: case definition and guidelines for data collection, analysis, and presentation of immunisation safety data. *Vaccine* 2017 Dec; 35(48 Pt A): 6546-6554. [PMCID:PMC5710982].
18. Liu JX, Liu J, Frongillo EA, **Boghossian NS**, Cai B, Hazlett LJ. Body mass index trajectories during infancy and pediatric obesity at 6 years. *Ann Epidemiol* 2017 Nov; 27(11):708-715.e1. [PMID: 29173577].
19. Polinski KJ, Liu J, **Boghossian NS**, McLain AC. Maternal obesity, gestational weight gain and asthma in offspring. *Prev Chronic Dis* 2017 Nov; 14:E109. [PMCID:PMC5695645].
20. Lynes C,\* McLain A, Yeung E, Liu J, Albert P, **Boghossian NS**. Interpregnancy weight change and adverse maternal outcomes. *Ann Epidemiol* 2017 Oct; 27(10):632-637.e5. [PMCID:PMC5751743].
21. **Boghossian NS**, Do BT, Bell EF, Dagle JM, Brumbaugh JE, Stoll BJ, Vohr BR, Das A, Shankaran S, Sanchez PJ, Wyckoff MH, Ball MB, for the *Eunice Kennedy Shriver* NICHD Neonatal Research Network. Efficacy of pharmacologic closure of patent ductus arteriosus in small-for-gestational-age extremely preterm infants. *Early Hum Dev* 2017 Oct; 113:10-17. [PMCID:PMC5654678].
22. **Boghossian NS**, Mendola P, Liu A, Robledo C, Yeung E. Maternal serum markers of lipid metabolism in relation to neonatal anthropometry. *J Perinatol* 2017 Jun; 37(6): 629-635. [PMCID:PMC5446273].
23. Robledo CA, Yeung EH, Mendola P, Sundaram R, **Boghossian NS**, Bell E, Druschel C. Examining the prevalence rates of preexisting maternal medical conditions and pregnancy complications by source: evidence to inform maternal and child research. *Matern Child Health J* 2017 Apr;21(4):852-862. [PMCID:PMC5322241].
24. **Boghossian NS**, Geraci M, Edwards EM, Morrow KA, Horbar JD, for the Vermont Oxford Network. Anthropometric charts for infants born between 22 and 29 weeks' gestation. *Pediatrics* 2016 Dec; 138(6). pii: e20161641. [PMID: 27940694].  
*Accompanying editorial available at:*  
<http://pediatrics.aappublications.org.pallas2.tcl.sc.edu/content/early/2016/11/16/peds.2016-3128>
25. **Boghossian NS**, McDonald SA, Bell EF, Carlo WA, Stoll BJ, Laptook AR, Das A, Higgins RD, for the Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Association of antenatal corticosteroids with mortality, morbidity, and neurodevelopmental outcomes in extremely preterm multiple gestation infants. *JAMA Pediatr* 2016 Jun; 170(6):593-601. [PMCID:PMC5270648].
26. **Boghossian NS**, Hansen NI, Bell EF, Brumbaugh JE, Stoll BJ, Laptook AR, Shankaran S, Wyckoff MH, Colaizy TT, Das A, Higgins RD, for the NICHD Neonatal Research Network. Outcomes of extremely preterm infants born to insulin-dependent diabetic mothers. *Pediatrics* 2016 Jun; 137(6):e20153424. [PMCID:PMC4894251].
27. **Boghossian NS**, Orekoya O, Liu J, Liu J. Pregnancy interventions or behaviors and cardiometabolic biomarkers: a systematic review. *Curr Epidemiol Rep* 2016 Mar; 3(1):27-38.
28. **Boghossian NS**, Sicko RJ, Kay DM, Rigler SL, Caggana M, Tsai MY, Yeung EH, Pankratz N, Cole BR, Druschel CM, Romitti PA, Browne ML, Fan R, Liu A, Brody LC, Mills JL. Rare copy number variants in posterior urethral valves. *Am J Med Genet A* 2016 Mar; 170(3):622-33. [PMID: 26663319].
29. **Boghossian NS**, Albert PS, Mendola P, Grantz KL, Yeung E. Delivery blood pressure and other first pregnancy risk factors in relation to hypertensive disorders in second pregnancies. *Am J Hypertens* 2015 Sep; 28(9):1172-1179. [PMCID:PMC4542849].
30. Yeung EH, McLain AC, Anderson N, Lawrence D, **Boghossian NS**, Druschel C, Bell E. Newborn adipokines and birth outcomes. *Paediatr Perinat Epidemiol* 2015 Jul; 29(4):317-325. [PMCID:PMC4484786].

31. **Boghossian NS**, Yeung E, Mendola P, Laughon K, Hinkle S, Zhang C, Albert PS. Risk factors differ between recurrent and incident preeclampsia: a hospital-based cohort study. *Ann Epidemiol* 2014 Oct; 24(12):871-877.e3. [PMCID:PMC4355246].
32. **Boghossian NS**, Yeung E, Albert PS, Mendola P, Laughon K, Hinkle S, Zhang C. Changes in diabetes status between pregnancies and impact on subsequent newborn outcomes. *Am J Obstet Gynecol* 2014 May; 210(5):431.e1-14. [PMCID:PMC4011935].
33. Hinkle SN, Albert PS, Mendola P, Sjaarda LA, **Boghossian NS**, Yeung E, Laughon SK. Differences in risk factors for incident and recurrent small-for-gestational-age birthweight. *BJOG* 2014 Apr; 121(9):1080-8. [PMCID:PMC4108555].
34. Hinkle SN, Albert PS, Mendola P, Sjaarda LA, Yeung E, **Boghossian NS**, Laughon SK. The association between parity and birthweight in a longitudinal consecutive pregnancy cohort. *Paediatr Perinat Epidemiol* 2014 Mar; 28(2):106-15. [PMCID:PMC3922415].
35. Yeung E, Robledo C, **Boghossian NS**, Zhang C, Mendola P. Developmental origins of cardiovascular disease. *Curr Epidemiol Rep* 2014 Mar; 1(1):9-16. [PMCID:PMC4214855].
36. **Boghossian NS**, Hansen NI, Bell EF, Stoll BJ, Murray JC, Carey JC, Adams-Chapman I, Shankaran S, Walsh MC, Laptook AR, Faix RG, Newman NS, Hale EC, Das A, Wilson LS, Hensman AM, Grisby C, Collins MV, Vasil DM, Finkle J, Maffett D, Ball MB, Lacy CB, Bara R, Higgins RD, 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. *Pediatrics* 2014 Feb; 133(2):226-35. [PMCID:PMC3904274].
37. Poon A, Yeung E, **Boghossian NS**, Albert P, Zhang C. Maternal diet quality in association with birthweight characteristics and early infant growth. *Scientifica* 2013 Dec; 2013:786409. [PMCID:PMC3893866].
38. Adams-Chapman I, Hansen NI, Shankaran S, Bell E, **Boghossian NS**, Murray JC, Laptook AR, Walsh MC, Carlo WA, Sánchez PJ, Van Meurs KP, Das A, Hale EC, Newman NS, Ball MB, Higgins RD, Stoll BJ, 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:PMC3691532].
39. **Boghossian NS**, Page GP, Bell EF, Stoll BJ, Murray JC, Cotten CM, Shankaran S, Walsh MC, Laptook AR, Newman NS, Hale EC, McDonald SA, Das A, Higgins RD, 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:PMC3633723].
40. **Boghossian NS**, Yeung E, Lipsky LM, Poon AK, Albert PS. Dietary patterns in association with postpartum weight retention. *Am J Clin Nutr* 2013 Jun; 97(6): 1338-45. [PMCID:PMC3652926].
41. **Boghossian NS**, Yeung E, Mumford S, Zhang C, Gaskins A, Wactawski J, Schisterman E. 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].
42. Pappas A, Shankaran S, Hansen NI, Bell EF, Stoll BJ, Laptook AR, Walsh MC, Das A, Bara R, Hale EC, Newman NS, **Boghossian NS**, Murray JC, Cotten CM, Adams-Chapman I, Hamrick S, Higgins RD, for the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development Neonatal Research Network. Outcome of extremely preterm infants (<1,000 g) with congenital heart defects from the NICHD Neonatal Research Network. *Pediatr Cardiol* 2012 Dec; 33(8):1415-26. [PMCID:PMC3687358].
43. **Boghossian NS**, Horbar JD, Carpenter JH, Murray JC, Bell EF, 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:PMC3646085].
44. **Boghossian NS**, Horbar JD, Murray JC, Carpenter JH, 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:PMC3646092].

45. **Boghossian NS**, Hansen NI, Bell EF, Stoll BJ, Murray JC, Laptook AR, Shankaran S, Walsh MC, Das A, Higgins RD, 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:PMC3059605].  
 Press release issued by NIH: <https://www.nih.gov/news-events/news-releases/very-low-birthweight-down-syndrome-infants-high-risk-heart-lung-disorders>
46. 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. [PMID: 20199356].

## B. BOOK CHAPTER

1. **Boghossian NS**. Neonatal care of infants of mothers with diabetes. In *Medical management of pregnancy complicated by diabetes*. Erika Werner, editor- 6<sup>th</sup> edition. Alexandria, Virginia. American Diabetes Association, 2019.

\*Denotes mentee.

## PRESENTATIONS

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### A. INVITED TALKS

1. **Boghossian N**. Racial/ethnic disparities in newborn outcomes. Medical University of South Carolina, Charleston, SC, May 2019.
2. **Boghossian N**. Sex Differences in Mortality and Morbidity of Infants Born at Less than 30 Weeks' Gestation. USC/DHEC Health Data Symposium, Columbia, SC, February 2019.
3. **Boghossian N**. When a perinatal epidemiologist and a biostatistician work together: challenges, perspectives, and (exhilarating) eureka moments. Department of Epidemiology and Biostatistics, University of South Carolina, Columbia, SC, November 2018.
4. **Boghossian N**. SGA, LGA, and IUGR among preterm infants born <30 weeks' gestation. Obstetrics/Gynecology and Pediatrics Departments, American University of Beirut Medical Center (AUBMC), Beirut, Lebanon, July 2018.
5. **Boghossian N**. Size for gestational age among preterm infants. University of Texas Medical Branch. Galveston, TX, December 2017.
6. **Boghossian N**. Maternal and newborn health in low income countries: the need for biorepositories. UNT Health Science Center, Fort Worth, TX, April 2017.
7. **Boghossian N**. Pregnancy complications, dietary factors, and newborn outcomes: a high-income country perspective. Translational Health and Science Technology Institute (THSTI), Delhi, India, March 2017.
8. **Boghossian N**. Study cohorts supporting maternal and newborn studies in low income countries. Department of Epidemiology and Biostatistics, University of South Carolina, Columbia, SC, October 2016.
9. **Boghossian N**. Biorepositories supporting maternal and newborn studies in low income countries, Bill and Melinda Gates Foundation Grand Challenges All Children Thriving, Nairobi, Kenya, February 2016.
10. **Boghossian N**. Resources and communities supporting LMIC maternal cohort studies. Bill and Melinda Gates Foundation Grand Challenges Annual Meeting, Beijing, China, October 2015.
11. **Boghossian N**. Pregnancy complications, dietary factors, and newborn outcomes. Interdisciplinary Conference on Pregnancy and the Health of Women and Children, Columbia, SC, November 2014.
12. **Boghossian N**. Pregnancy factors and neonatal Outcomes. Obstetrics and Gynecology Department. American University of Beirut Medical Center (AUBMC), Beirut, Lebanon, August 2014.

13. **Boghossian N.** Pregnancy factors and neonatal outcomes. Pediatrics Department. American University of Beirut Medical Center (AUBMC), Beirut, Lebanon, August 2014.

#### **B. ORAL PRESENTATIONS**

1. Khanam R, **Boghossian NS**, Burchard J, Dhingra U, Nisar MI, Yoshida S, Fox AC, Sera Clinical Laboratory, Boniface JJ, Hickok DE, Bahl R, Sazawal S, Jehan F, Baqui AH. Maternal serum proteomic profiles of term and spontaneous preterm delivery in South Asian and Sub-Saharan African populations. Platform presentation at the Society for Reproductive Investigation, Paris, France, March 2019.
2. **Boghossian N.** Size for gestational age. Vermont Oxford Network Database Advisory Committee. Chicago, IL, October 2017.
3. Lynes C,\* **Boghossian N.** Interpregnancy weight change and adverse maternal outcomes. Awarded best clinical science presentation at the 2016 Carolina Women's Health Research Forum.
4. **Boghossian N**, McDonald SA, Bell EF, Carlo WA, for the NICHD Neonatal Research Network. Antenatal corticosteroids in extremely preterm twins: impact on mortality, morbidity, and neurodevelopmental outcomes. Platform presentation at the Pediatric Academic Societies, San Diego, CA, April 2015.
5. **Boghossian N**, Saha S, Bell E, for the NICHD Neonatal Research Network. Impact of birth weight discordance on mortality, morbidity, and neurodevelopmental outcomes in very low birth weight twins. Platform presentation at the Pediatric Academic Societies, Vancouver, BC, May 2014.
6. **Boghossian N**, Hansen N, Bell EF, for the NICHD Neonatal Research Network. Morbidity, mortality, and neurodevelopmental outcomes of extremely preterm infants born to insulin-dependent diabetic mothers. Platform presentation at the Pediatric Academic Societies, Vancouver, BC, May 2014.
7. Hinkle S, Albert P, Mendola P, Sjaarda L, **Boghossian N**, Yeung E, Laughon S.K. Differences in risk factors for incident and recurrent small-for-gestational-age birth weight: a hospital-based cohort study. Platform presentation at the Fetal Growth Meeting, Baltimore, MD, September 2013.
8. **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, MD, September 2013.
9. Yeung E, Mills J, Zhang C, **Boghossian N**, Robledo C, Mendola P. Maternal copeptin levels are not associated with infant birth weight. Platform presentation at the Fetal Growth Meeting, Baltimore, MD, September 2013.
10. **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, MA, June 2013.
11. **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.

#### **C. POSTER PRESENTATIONS**

1. **Boghossian N**, Geraci M, Lorch S, Phibbs C, Edwards E, Horbar JD. Racial/ethnic differences in outcomes of infants born <30 weeks' gestation between 2006-2016. Presented at the Pediatric Academic Societies, Baltimore, MD, April 2019.
2. Orekoya O, Liu J, **Boghossian NS**, Rothenberg SE, Hazlett LJ, Cai B. Breastfeeding practices and allergic conditions and asthma among 6-year old US children. Presented at the Society for Pediatric and Perinatal Epidemiologic Research, Baltimore, MD, June 2018.
3. **Boghossian N**, Geraci M, Edwards EM, Horbar JD. Neonatal vs. fetal growth standards to identify small for gestational age infants at risk of adverse outcomes. Presented at the Society for Epidemiologic Research and the Society for Pediatric and Perinatal Epidemiologic Research, Baltimore, MD, June 2018.

4. Sevoyan M,\* Geraci M, **Boghossian N**. Examining the 'Birthweight Paradox': Differences in Maternal and Newborn Characteristics Among Smoking and Non-smoking Mothers. Presented at the Society for Epidemiologic Research and the Society for Pediatric and Perinatal Epidemiologic Research, Baltimore, MD, June 2018.
5. Hirst J, Dung LP, Thi VT, Nhu B, **Boghossian N**, Thwaites G, Kennedy S, Hickok D, Murray J, Fox A, Boniface J, Kestelyn E, Thuan TD, Thanh LQ. The preterm birth biomarkers cohort: study update and cohort characteristics. Presented at the Asia Pacific ObGyn conference, Ho Chi Minh City, Viet Nam, May 2018.
6. **Boghossian N**, Tan S, Bell E, Stoll B, Rysavy M, Carlo W, Hintz S, Ambalavanan N, Tyson J, Lantos J, Duncan A, Das A, Higgins R. Differences in extremely preterm infant outcomes by sex over time. Presented at the Pediatric Academic Societies, Toronto, CA, May 2018.
7. Sevoyan M,\* **Boghossian N**. Effect of gestational age on subsequent preterm birth. Presented at the American College of Epidemiology, New Orleans, LA, September 2017.
8. Sevoyan M,\* Geraci M, **Boghossian N**. Interpregnancy Interval and Birthweight: A Quantile Regression Approach. Presented at the Society for Epidemiologic Research, Seattle, WA, June 2017 (Online published abstract).
9. Liu J, Liu J, Frongillo E, **Boghossian N**, Hazlett L, Cai B. Growth trajectories of body mass index during the first year of life and their potential determining factors. Presented at the Society for Epidemiologic Research and the Society for Pediatric and Perinatal Epidemiologic Research, Miami, FL, June 2016.
10. Orekoya O, Liu J, Rothenberg S, **Boghossian N**, Hazlett L, Cai B. Maternal gestational weight gain and offspring's weight at 12 months of age in rural Guangxi province, China: the mediating role of birth weight. Presented at the Society for Epidemiologic Research and the Society for Pediatric and Perinatal Epidemiologic Research, Miami, FL, June 2016.
11. Dimopoulos A, Sicko R, Kay D, **Boghossian N**, Rigler S, Hagen E, Fan R, Romitti P, Browne M, Druschel C, Caggana M, Brody L, Mills J. Rare copy number variants in a population-based investigation of isolated tracheoesophageal fistula and esophageal atresia. Presented at Teratology Society, July 2015 (Poster).
12. **Boghossian N**, Liu A, Koo W, Mumford S, Kissell K, Mills J, Yeung E. Impact of maternal vitamin D insufficiency on neonatal bone and fat mass. Presented at the American College of Epidemiology, Silver Spring, MD, September 2014.
13. **Boghossian N**, Sicko R, Kay D, Rigler S, Yeung E, Druschel C, Romitti P, Browne M, Fan R, Liu A, Brody L, Mills J. Rare Copy Number Variants in Urinary System and Reproductive Genes Implicated in Posterior Urethral Valves. Presented at Teratology Society, Bellevue, WA, July 2014.
14. **Boghossian N**, Sicko R, Kay D, Rigler S, Yeung E, Druschel C, Romitti P, Browne M, Fan R, Liu A, Brody L, Mills J. Novel Copy Number Variants in a Population-Based Investigation of Prune Belly Syndrome. Presented at Teratology Society, Bellevue, WA, July 2014.
15. Hinkle S, **Boghossian N**, Sjaarda L, Ye A, Grantz K, Schisterman E. Causal Diagrams of Total Gestational Weight Gain and the Utility of Weight-Gain-for-Gestational-Age Z-score. Presented at the Society for Epidemiologic Research, Seattle, WA, June 2014.
16. Yeung E, McLain A, Anderson N, Lawrence D, **Boghossian N**, Druschel C, Bell E. Blood spot adiponectin and infant birth size. Presented at the Society for Epidemiologic Research and the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, June 2014.
17. **Boghossian N**, Mendola P, Robledo C, Yeung E. Maternal serum markers of lipid metabolism in relation to neonatal anthropometry. Presented at the Society for Epidemiologic Research and the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, June 2014.
18. Robledo C, Yeung E, Mendola P, **Boghossian N**, Sundaram R, Bell E, Druschel C. Mind your data source: Pregnancy complications differ by source. Presented at the Society for Epidemiologic Research and the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, June 2014.

19. 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. Presented at the Society for Maternal-Fetal Medicine, New Orleans, LA, February 2014.
20. Zhang C, Martin K, Bowers K, Liu A, Bao W, Vaag A, Yeung E, Sun L, **Boghossian N**, Hu F, Olsen S. Fasting glucose levels during pregnancy and long-term childhood growth in the offspring. Presented at the Society for Maternal-Fetal Medicine, New Orleans, LA, February 2014.
21. 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, Boston, MA, October 2013.
22. 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, MA, June 2013.
23. **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, MA, June 2013.
24. **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, MA, June 2013.
25. **Boghossian N**, Yeung E, Albert P, Zhang C. Maternal adherence to the Mediterranean diet in association with offspring birth weight and infant growth. Presented at the Obesity Society, San Antonio, TX, September 2012.
26. 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, TX, September 2012.
27. **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 Epidemiologic Research and the Society for Pediatric and Perinatal Epidemiologic Research, Minneapolis, MN, June 2012.
28. **Boghossian N**, Yeung E, Lipsky L, Albert P. Mediterranean diet and postpartum weight retention. Presented at the Division for Intramural Research, National Institute of Child Health and Human Development, Bethesda, MD, May 2012.
29. **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, Denver, CO, May 2011.
30. **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, DC, December 2010.
31. **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, BC, May 2010.
32. **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, BC, May 2010.
33. **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, IL, June 2008.
34. Mroueh S, **Boghossian N**, Mumtaz G, Kassir M, Matar M, Yunis K. Does Iron Supplementation in Infants Increase the Risk of Wheezing? Presented at the Pediatric Academic Societies, Hawaii, May 2008.

35. 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.
36. Melki I, Mumtaz G, **Boghossian N**, Kassar 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.
37. 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.
38. 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.
39. Fahed D, **Boghossian N**, Mumtaz G, Nakad P, Yunis K. Consanguinity and retinopathy of prematurity. Presented at the Society of Pediatric Research, May 2006.
40. 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, CA, April 2006.

## REPORTS

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

## PROFESSIONAL DEVELOPMENT

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- 2018 Metabolomics, NIH West Coast Metabolomics Center, University of California, Davis
- 2018 An Introduction to Causal Inference, Harvard University
- 2013 Embryology, Developmental Biology and Human Malformations (Gene 505), NIH
- 2012 Epigenetics and Medical Disorders (Biol 338), NIH
- 2012 Scientists Teaching Science Course, Office of Intramural Training and Education, NIH
- 2012 Presentation Training, Oratorio Media and Presentation Training, Washington, DC
- 2011 Media Training, Oratorio Media and Presentation Training, Washington, DC

## LANGUAGES

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Fluent in English and Arabic

Fair knowledge of Armenian and French