

# SAMUEL PEW SCOTT

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## EXPERIENCE & EDUCATION

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- 2018- **Research Fellow**, Poverty Health and Nutrition Division, New Delhi Office, IFPRI
- Co-PI: Evaluation of World Food Programme's Food for Assets program in Sri Lanka (R5N)
  - Partnerships and Opportunities to Strengthen and Harmonize Actions for Nutrition (POSHAN)
- 2016-18 **Associate Research Fellow**, Poverty Health and Nutrition Division, New Delhi Office, IFPRI
- Women Improving Nutrition through Group Based Strategies: evaluation of PRADAN/PHRN program to improve maternal and child nutrition through BCC via women's self-help groups
  - Suaahara II: (1) Supporting adolescents to decrease the prevalence of anemia and underweight; (2) Strengthening health systems to improve delivery and uptake of nutrition interventions
- 2015-16 **Postdoctoral Researcher**, Nutritional Sciences, The Pennsylvania State University
- 60-month extension of The Interactions of Malnutrition and Enteric Infections: Consequences for Child Health and Development (MAL-ED) study
  - Quality control to harmonize data collection procedures and minimize experimenter drift in relation to neurocognitive assessment (South Africa, Tanzania, Pakistan, India, Peru, Brazil, Bangladesh, Nepal)
- 2010-15 **Ph.D., Nutritional Sciences**, The Pennsylvania State University
- Dissertation: Interrelations between iron status, cardiorespiratory fitness, and cognitive function in young adult females (Advisor: Dr. Laura E. Murray-Kolb)
  - On-site involvement in efficacy trials aimed at assessing the impact of biofortified crops on iron status, physical performance, cognition and behavior (India pearl millet and Rwanda beans)
  - Ran laboratory assays on blood samples, collected/analyzed data, prepared and published manuscripts
- 2006-10 **B.S., Nutritional Sciences**, Basic Sciences option, The Pennsylvania State University
- With high distinction honors, Schreyer Honors College
  - Honors Thesis: How changes in the variety of vegetables affect vegetable intake and energy intake in a meal (Advisor: Dr. Barbara J. Rolls)

## PEER-REVIEWED JOURNAL ARTICLES

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### *Published*

1. Nguyen P, Walia M, Pant A, Menon P, **Scott S**. Changes in anemia and anthropometry during adolescence predict learning outcomes: findings from a 3-year longitudinal study in India. *American Journal of Clinical Nutrition* 2022 Feb 4; nqac028. doi: 10.1093/ajcn/nqac028 (**IFPRI Journal Ranking: A\***)
2. Nguyen P, Singh N, **Scott S**, Neupane S, Jangid M, Walia M, Murira Z, Bhutta Z, Torlesse H, Piwoz E, Heidkamp R, Menon P. Co-coverage of nutrition interventions falls short of co-coverage of health interventions in South Asia: examining inequalities and opportunity gaps using Demographic and Health Survey data. *Bulletin of the World Health Organization* 2021 (**IFPRI Journal Ranking: A**).
3. Chakrabarti S, **Scott S**, Alderman H, Menon P, Gilligan D. Intergenerational benefits of India's midday meal program: effects of participation on maternal height and education and child stunting. *Nature Communications* 2021 (**IFPRI Journal Ranking: A\***).
4. Nguyen P, **Scott S**, Khuong LQ, Pramanik P, Ahmed A, Rashid S, Afsana K, Menon P. Why are adolescents more likely to have stunted and underweight children than adults? A path analysis using data from 30,000 Bangladeshi mothers, 1996-2014. *Annals of the New York Academy of Sciences* 2021. (**IFPRI Journal Ranking: A**).

5. Nguyen P, **Scott S**, Headey D, Singh N, Tran LM, Menon P, Ruel M. The double burden of malnutrition in India: trends and inequalities (2006-2016). *PLOS ONE* 2021. **(IFPRI Journal Ranking: B)**.
6. **Scott S**, Nguyen P, Neupane S, Pramanik P, Nanda P, Bhutta Z, Afsana K, Menon P. Early marriage and early childbearing in South Asia: trends, inequalities, and drivers from 2005 to 2018. *Annals of the New York Academy of Sciences* Dec 2020; <https://doi.org/10.1111/nyas.14531> **(IFPRI Journal Ranking: A)**.
7. **Scott S**, Nguyen P, Pant A, Menon P. Demographic, nutritional, social and environmental predictors of learning skills and depression in 20,000 Indian adolescents: Findings from the UDAYA survey. *PLOS ONE* Oct 2020; <https://doi.org/10.1371/journal.pone.0240843> **(IFPRI Journal Ranking: B)**.
8. **Scott S**, Arrieta A, Kumar N, Quisumbing A. Multidimensional predictors of common mental disorders among Indian caregivers of 6- to 24-month-old children living in villages with women's self-help groups. *PLOS ONE* June 2020; <https://doi.org/10.1371/journal.pone.0233418> **(IFPRI Journal Ranking: B)**
9. Menon P, Avula R, Pandey S, **Scott S**. Rethinking effective nutrition convergence: An analysis of intervention co-coverage data. *Economic and Political Weekly* 2019 June; 54:24. **(IFPRI Journal Ranking: B)**
10. McCormick B et al. on behalf of the **MAL-ED Network Investigators**. Early life child micronutrient status, maternal reasoning, and a nurturing household environment have persistent influences on child cognitive development at age 5 years: results from MAL-ED. *Journal of Nutrition* 2019 June. **(IFPRI Journal Ranking: A\*)**
11. Nguyen P, **Scott S**, Neupane S, Menon P. Social, biological and programmatic factors linking adolescent pregnancy and early childhood undernutrition: a path analysis of India's 2016 National Family and Health Survey. *Lancet Child and Adolescent Health* 2019 May. **(IFPRI Journal Ranking: NR)**
12. Chakrabarti S, Khan T, Kishore A, Roy D, **Scott S**. Risk of acute respiratory infection from crop burning in India: estimating disease burden and economic welfare from satellite and national health survey data for 250,000 persons. *International Journal of Epidemiology* 2019 Aug. **(IFPRI Journal Ranking: A\*)**
13. Petkus DL, Murray-Kolb LE, **Scott S**, Southmayd EA, De Souza MJ. Iron status at opposite ends of the menstrual function spectrum. *J Trace Elem Med Biol* 2019 Jan; 51: 169-275 **(IFPRI Journal Ranking: C)**.
14. Wenger MJ, Rhoten SE, Murray-Kolb LE, **Scott S**, Haas JD. Changes in iron status are related to changes in brain activity and behavior in Rwandan female university students: results from a randomized controlled efficacy trial involving iron-biofortified beans. *Journal of Nutrition* 2019 Apr. **(IFPRI Journal Ranking: A\*)**
15. Nguyen P, **Scott S**, Avula R, Menon P. Anemia trends and drivers of change in one million Indian women and children, 2006 to 2016. *BMJ Global Health* 2018. **(IFPRI Journal Ranking: NR)**
16. Chakrabarti S, Raghunathan K, Kishore A, **Scott S**. Impact of subsidized fortified wheat on anaemia in pregnant Indian women. *Maternal and Child Nutrition* 2018. **(IFPRI Journal Ranking: A)**
17. **Scott S**, Murray-Kolb LE, Wenger MJ, Rhoten SE, Udipi S, Ghugre P, Haas JD. Positive impact of iron-biofortified pearl millet on cognitive performance in Indian school-going adolescents aged 12-16 years: a 24-week randomized controlled efficacy trial. *Journal of Nutrition* 2018; 148:1-10. **(IFPRI Journal Ranking: A\*)**
18. Chakrabarti S, George N, Majumder M, Raykar N, **Scott S**. Identifying sociodemographic, programmatic, and dietary drivers of anemia reduction in pregnant Indian women over 10 years. *Public Health Nutrition*. 2018. doi:10.1017. **(IFPRI Journal Ranking: B)**
19. Kumar N, **Scott S**, Menon P, Kannan S, Cunningham K, Tyagi P, Wable G, Raghunathan K, Quisumbing A. Pathways from women's group-based programs to nutrition change in South Asia: a conceptual framework and literature review. *Global Food Security* 2017. doi 10.1016. **(IFPRI Journal Ranking: B)**
20. Murray-Kolb LE, Wenger MJ, **Scott S**, Rhoten SE, Lung'aho M, Haas JD. Consumption of iron-biofortified beans positively affects cognitive performance in 18-27 year old Rwandan female college students in an 18-week randomized controlled efficacy trial. *Journal of Nutrition* 2017; 147:2109-2117. **(IFPRI Journal Ranking: A\*)**
21. **Scott S**, De Souza MJ, Koehler K, Murray-Kolb LE. Combined iron deficiency and low aerobic fitness doubly burden academic performance among women attending university. *Journal of Nutrition* 2016. doi 10.3945. **(IFPRI Journal Ranking: A\*)**
22. **Scott S**, De Souza MJ, Koehler K, Petkus D, Murray-Kolb LE. Cardiorespiratory fitness is associated with better executive function in young women. *Medicine & Science in Sports & Exercise* 2016;48 (10). **(IFPRI Journal Ranking: A\*)**

23. **Scott S**, Murray-Kolb LE. Iron status is associated with performance on executive functioning tasks in nonanemic young women. *Journal of Nutrition* 2016; 146:1-9. **(IFPRI Journal Ranking: A\*)**
24. **Scott S**, Chen L, Chen P, Caulfield L, Murray-Kolb LE. The impact of anemia on child mortality: an updated review. *Nutrients* 2014; 6(12):5915-5932. **(IFPRI Journal Ranking: B)**

*Submitted/in progress*

1. **Scott S**, Gupta S, Menon P, Raghunathan K, Thai G, Quisumbing A, Prasad V, Hegde A, Choudhury A, Khetan M, Nichols C, Kumar N. A quasi-experimental evaluation of a nutrition behavior change intervention delivered through women's self-help groups in rural India: impacts on maternal and young child diets, anthropometry and intermediate outcomes. *Submitted to: Current Developments in Nutrition (IFPRI Journal Ranking: NR)*.
2. Raghunathan K, Kumar N, Thai G, Gupta S, **Scott S**, Choudhury A, Khetan M, Menon P, Quisumbing A. Scale and sustainability: the impact of a women's self-help group program on household economic well-being in India. *Submitted to: Journal of Development Economics (IFPRI Journal Ranking: A\*)*.
3. **Scott S**, Lahiri A, Sethi V, De Wagt A, Menon P, Yadav K, Varghese M, Joe W, Vir SC, Nguyen P. Prevalence, burden and predictors of anemia in Indian adolescent girls and boys 10 to 19 years of age: evidence from the Comprehensive National Nutrition Survey, 2016-2018. *Submitted to: Maternal and Child Nutrition (IFPRI Journal Ranking: A)*.
4. Wenger MJ, Murray-Kolb LE, Nevins JEH, **Scott S**, Boy E, Gahutu JB, Haas JD. Changes in iron status are related to changes in brain activity and behavior in Indian school children: results from a randomized controlled efficacy trial involving iron-biofortified pearl millet. *Submitted to: BMC Public Health. (IFPRI Journal Ranking: A)*
5. Chakrabarti S, **Scott S**. The reduction in total fertility rate predicts one fourth of the gain in child height in the last decade: evidence from 44 low- and middle-income countries. *Not yet submitted*.
6. Singh N, **Scott S**, Kumar N, Ramani G, Marshall Q, Sinclair K, Kalupahana S, Fernando M, Silva R, Perera A, Jayatissa R, Olney D. Food insecurity and perceived effects of COVID-19 on livelihoods in rural Sri Lanka. *Not yet submitted*.
7. Nguyen P, Tauseef S, Khuong L, Gupta RJ, Billah S, Menon P, **Scott S**. Undernutrition, overweight/obesity, and non-communicable diseases in Bangladesh: trends and inequities from 2004 to 2018. *Not yet submitted*.
8. Pant A, Christopher A, Scott S, Avula R, Menon P, Nguyen P. Using high frequency health information system data to quantify effects of COVID-19 on disruption and restoration of health and nutrition services in India. *Not yet submitted*.
9. Neupane S, Scott S, Piwoz E, Kim S, Menon P, Nguyen P. More is not enough: high quantity and high quality antenatal care are both needed to prevent low birthweight in South Asia. *Submitted to: BMJ Global Health (IFPRI Journal Ranking: A)*.

#### OTHER (NON-PEER REVIEWED/POLICY WRITING)

1. Chakrabarti S, **Scott S**, Alderman H, Menon P, Gilligan D. The power of school feeding programs to improve nutrition. Ideas for India, Aug 2021. <https://www.ideasforindia.in/topics/governance/the-power-of-school-feeding-programmes-to-improve-nutrition.html>
2. Chakrabarti S, **Scott S**, Alderman H, Menon P, Gilligan D. School feeding programs improve nutrition and child growth across generations: Evidence from India. IFPRI Blog, Aug 2021. <https://www.ifpri.org/blog/school-feeding-programs-improve-nutrition-and-child-growth-across-generations-evidence-india>
3. DataDENT reports for 7 countries in South Asia e.g. Jangid M, Neupane S, **Scott S**, Nguyen P, Kim S, Murira Z, Torlesse H, Menon P. Are data available for tracking progress on nutrition policies, programs and outcomes in Bhutan? IFPRI Report, 2021 <https://ebrary.ifpri.org/digital/collection/p15738coll2/id/134472/rec/3>
4. Nguyen P, **Scott S**, Dearlove H. Study: Examining wealth and residential inequalities in India's double burden of malnutrition. IFPRI Blog, Apr 2021. <https://www.ifpri.org/blog/study-examining-wealth-and-residential-inequalities-indias-double-burden-malnutrition>
5. Pant A, **Scott S**, Nguyen P. How to support students and the learning process during India's COVID-19 school closures. IFPRI Blog, Dec 2020. <https://www.ifpri.org/blog/how-support-students-and-learning-process-during-indias-covid-19-school-closures>

6. Menon P, Avula R, Pandey S, **Scott S**, Kumar A. Why the first thousand days matter most. Sep 2019. <https://www.ifpri.org/blog/why-first-thousand-days-matter-most>
7. **Scott S**. The link between crop burning and respiratory illness is a health and economic timebomb. IFPRI Blog. Mar 2019. <https://www.ifpri.org/blog/link-between-crop-burning-and-respiratory-illness-health-and-economic-timebomb>
8. Series of Data Notes for NFHS-4 state level coverage: e.g. Pramanik, P; Avula, R; Nguyen, PH; Tran, LM; **Scott, S**; and Menon, P. **2018**. Coverage of nutrition and health interventions in Telangana: Insights from the National Family Health Survey-4. POSHAN Data Note 34. New Delhi, India: International Food Policy Research Institute (IFPRI). <http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/id/132942>
9. **Scott S**. Boosting iron status and cognition with biofortified staple foods <http://poshan.ifpri.info/2018/10/23/boosting-iron-status-and-cognition-with-biofortified-staple-foods/>
10. **Scott S**. Improvement in sanitation is crucial for anemia reduction among pregnant women in India <http://poshan.ifpri.info/2018/06/21/improvement-in-sanitation-is-crucial-for-anemia-reduction-among-pregnant-women-in-india/>

## PRESENTATIONS AT PROFESSIONAL MEETINGS

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1. **Scott S**, Olney D et al. Improving smallholder livelihoods and nutrition: an evaluation of WFP's nutrition-sensitive Food Assistance for Assets program in Sri Lanka. *Micronutrient Forum 2020* (oral presentation).
2. **Scott S**, Arrieta A, Kumar N, Quisumbing A. Multidimensional predictors of common mental disorders among Indian caregivers of 6- to 24-month-old children living in villages with women's self-help groups. *Nutrition 2019 Baltimore, MD, USA* (poster presentation).
3. **Scott S**, Nguyen P, Pant A, Menon P. Multidimensional predictors of learning skills and depression in adolescents: findings from the UDAYA survey in northern India. *Nutrition 2019, Baltimore, MD, USA* (poster presentation).
4. Nguyen P, **Scott S**, Neupane S, Menon P. Young mom, short kid: examining social, biological and health and nutrition service factors linking adolescent pregnancy to early childhood undernutrition in India. *Presented at What Lies Beneath: Women's and Girls' Wellbeing as a Critical Underpinning of India's Nutritional Challenge, New Delhi, India* (oral presentation).
5. Nguyen P, **Scott S**, Avula R, Menon P. Anemia trends and drivers of change in one million Indian women and children, 2006 to 2016. *Presented at Strengthening Actions for Nutrition in India: Insights from the National Family Health Survey, New Delhi, India* (oral presentation).
6. **Scott S**, Murray-Kolb LE, Wenger MJ, Rhoten SE, Udipi S, Ghugre P, Haas JD. Positive impact of iron-biofortified pearl millet on cognitive performance in Indian school-going adolescents aged 12-16 years: a 24-week randomized controlled efficacy trial. *Presented at HarvestPlus. Washington, DC, June 17, 2018* (oral presentation).
7. **Scott S**, Chakrabarti S, George N, Majumder M, Raykar N. Identifying sociodemographic, programmatic, and dietary drivers of anemia reduction in pregnant Indian women over 10 years. *Nutrition 2018. Boston, USA.* (oral presentation).
8. **Scott S**, Chakrabarti S, Alderman H, Gilligan D, Menon P. Intergenerational benefits of India's midday meal program: effects of participation on maternal height and education and child stunting. *Nutrition 2018. Boston, USA.* (oral presentation).
9. **Scott S**, Murray-Kolb LE, Wenger MJ, Luna SV, Rhoten S, Lung'aho M, Udipi SA, Ghugre PS, Haas JD. Iron-biofortified pearl millet and beans improve cognition. Agriculture for Nutrition and Health Academy, July 2017. Kathmandu, Nepal (poster presentation and elevator pitch).
10. **Scott S**, Murray-Kolb LE, Wenger MJ, Luna SV, Udipi SA, Ghugre PS, Haas JD. Consumption of iron-biofortified pearl millet improves cognitive performance in Indian adolescents. *Nutrition and Child Development Through the Lens of Iron, June 2-3, 2016. University of Michigan* (poster presentation).
11. **Scott S**, De Souza MJ, Myshko, Koehler K, Petkus DL, Murray-Kolb LE. Relating iron status and aerobic fitness to executive function in young adult women. Institute of Biomedicine, Federal University of Ceara, February 2, 2016. Fortaleza, Brazil (oral presentation).
12. **Scott S**, Murray-Kolb LE, Wenger MJ, Udipi S, Ghugre P, Finkelstein J, Mehta S, Luna S, Haas JD. Findings from a 6-month efficacy trial in Maharashtra involving iron-biofortified pearl millet—impact on iron status and physical performance. 2<sup>nd</sup> International Workshop on Micronutrients and Child Health, November 3-7, 2014. Delhi, India (oral presentation).

13. **Scott S**, Murray-Kolb LE, Wenger MJ, Udipi S, Ghugre P, Finkelstein J, Mehta S, Luna S, Przybzewski E, Haas JD. Summary of efficacy trial in rural India involving iron-biofortified pearl millet. USDA Borlaug Workshop, August 3-7, 2014. Accra, Ghana (oral presentation).
14. **Scott S**, Murray-Kolb LE, Wenger MJ, Udipi S, Ghugre P, Haas JD. Relating iron intake to iron status and cognitive functioning, results from a 6-month efficacy trial involving biofortified pearl millet in India. Micronutrient Forum, June 2-6, 2014. Addis Ababa, Ethiopia (oral presentation).
15. **Scott S**, Murray-Kolb LE, Wenger MJ, Udipi S, Ghugre P, Haas JD. Iron-biofortified pearl millet improves attentional function in Indian adolescents. Penn State Public Health Day Symposium, May 9, 2014. Hershey, PA (oral presentation).
16. **Scott S**, Murray-Kolb LE, Wenger MJ, Udipi S, Ghugre P, Haas JD. Increases in iron status in Indian adolescents parallel improvement in attention. Experimental Biology, April 26-30, 2014. San Diego, CA (poster presentation) and Graduate Student Exhibition, 2014. University Park, PA (poster presentation).
17. **Scott S**, Murray-Kolb LE, Wenger MJ, Udipi S, Ghugre P, Haas JD. Separating the effects of iron and anemia status on cognitive function in Indian adolescents. Experimental Biology, April 20-24, 2013. Boston, MA (poster presentation).
18. **Scott S**, Murray-Kolb LE, Wenger MJ, Udipi S, Ghugre P, Haas JD. Iron deficiency but not anemia affects brain processing speed in Indian adolescents. Graduate Student Exhibition, March 24, 2013. University Park PA (poster presentation).
19. **Scott S**, Wenger MJ, Murray-Kolb LE, Ghugre P, Udipi S, Boy E, Haas JD. Relations between iron status and cognitive measures in Indian adolescents. Experimental Biology, April 21-25, 2012. San Diego, CA (poster presentation).

## HONORS

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2020	Penn State College of Health and Human Development – Emerging Professional Graduate Award
2019	Nutrition Star Spotlight, Penn State Nutritional Sciences <a href="https://hhd.psu.edu/nutrition/nutrition-stars-spotlight">https://hhd.psu.edu/nutrition/nutrition-stars-spotlight</a>
2018	Research on anemia drivers in pregnant Indian women featured in <i>IFPRI Insights</i> and 14 news outlets reaching 22 million users: <i>Hindustan Times</i> , <i>The Tribune</i> , <i>IndiaSpend</i> , <i>India Today</i> , <i>Business Standard</i> , <i>New Indian Express</i> , <i>Outlook India</i> , <i>First Post</i> among others.
2018	Interviewed for a HarvestPlus video documentary on the effects of biofortification on human functional outcomes
2014	Conference Grant to attend Micronutrient Forum in Ethiopia, Micronutrient Initiative
2014	Best Overall Abstract, Penn State Public Health Day Symposium
2014	University Office of Global Programs Travel Award
2014	Department of Nutritional Sciences Travel Award
2013	College of Health and Human Development Professional Development Endowment
2013	3 <sup>rd</sup> place, Penn State Graduate Student Research Exhibition
2012-13	Mary Frances Picciano Graduate Student Endowment
2012	John L. Beard Program Endowment
2009	Mary Burket Morrow Scholarship
2008	Schreyer Honors College Travel Award

## SERVICE

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2019-21	IFPRI IRB member
2019	Ad-hoc reviewer, <i>Nutritional Neuroscience</i> ; <i>Asia Pacific Journal of Public Health</i> , <i>PLOS ONE</i>
2018	Ad-hoc reviewer, <i>Journal of Plant Sciences and Crop Protection</i>
2016	Grant reviewer for graduate student scientific writing class
2015-16	Ad-hoc reviewer, <i>Nutrients</i>
2015	Ad-hoc reviewer, <i>International Journal of Environmental Research and Public Health</i>
2015	Student Chair, Experimental Biology Symposium on Micronutrient Interventions
2015	Judge, American Society for Nutrition Student Interest Group travel award competition
2014-15	Committee Member, Vitamins and Minerals Research Interest Section, American Society for Nutrition
2014-15	Committee member, Branding Working Group, Graduate Program in Nutrition, Penn State
2013-15	Committee Member, Public Information Committee, American Society for Nutrition
2013-15	Social Media Advocate, Penn State Graduate Program in Nutrition

- 2013-15 Graduate Student Council Representative, Penn State
- 2014 Judge, Pennsylvania Junior Academy of Science State Competition
- 2013 Student Organizer, Healthy People Penn State Research Conference
- 2013 Member, Penn State Community Garden
- 2013 Student Blogger, Penn State Graduate Program in Nutrition
- 2012-13 Student Blogger, American Society for Nutrition
- 2011-13 Technology Officer, Nutrition Graduate Student Association
- 2010 Community Supported Agriculture Farm Intern, Inverbrook Farm, PA
- 2009 Medical Supply Organizer, Penn State Global Medical Brigades, Honduras
- 2007-09 Student Officer, Pre-dental Society
- 2007 Sustainability in Agriculture Volunteer, International Student Volunteers, Ecuador

## PROFESSIONAL AFFILIATIONS

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- 2010-21 Member, American Society for Nutrition
- 2016-20 Member, Society for Implementation Science in Nutrition,
- 2016-17 Member, Health Systems Global
- 2016-17 Member, Society for Research in Child Development
- 2008-09 Member, Health and Human Development Honor Society, Penn State