

CURRICULUM VITAE

Maureen E. Basha

Current Title: Associate Professor-Research
Business Address: Louisiana State University Health Sciences Center
Department of Physiology
1901 Perdido Street, New Orleans, LA, 70112
Business Telephone: (504) 456-2014
Business Fax: (504) 568-6158
Business email Address: mbash1@lsuhsc.edu

Birthdate and Birthplace: June 21, 1967, Corner Brook, NF, Canada

Citizenship: Canadian, US Permanent Resident

Education:
B.S 1990, Dept. of Animal Science, University of Guelph, Guelph, Ontario, Canada

Graduate 2003, Dept. of Animal Physiology, University of Minnesota, St. Paul, MN, Advisor: Dr. Gary E. Duke. Thesis: The role of small intestinal refluxes in avian digestive physiology.

Post-Doctoral Training 2004-2007, University of Pennsylvania, Dept. of Surgery, Division of Urology, Philadelphia, PA. Mentor: Dr. Samuel K. Chacko. Project: Regional differences in contractile protein expression and smooth muscle function within the vaginal muscularis.

Academic, Professional, and Research Appointments:

1997 Adjunct Instructor, Dept. of Biology, St. Mary's University, Winona, MN

1998-1999 Visiting Instructor, Dept. of Biology, University of St. Thomas, St. Paul, MN

1999-2002 Visiting Instructor, Dept. of Biology, Macalester College, St. Paul, MN

2003 Adjunct Instructor, Dept. of Biology, Macalester College, St. Paul, MN
Adjunct Instructor, Dept. of Biology, Metro-State University, St. Paul, MN
Adjunct Instructor, Dept. of Biology, University of St. Thomas, St. Paul, MN

2007-2010 Assistant Professor, Dept. of Pharmacology and Physiology, Drexel University College of Medicine (DUCOM), Philadelphia, PA

2010-2014 Assistant Professor, Dept. of Human Science, Georgetown University, Washington, DC

- 2014- 2017 Assistant Professor, Dept. of Biomedical Sciences, West Virginia School of Osteopathic Medicine (WVSOM) , Lewisburg, WV (tenure and promotion awarded October, 2017)
- 2017- Associate Professor-Research, Dept. of Physiology, Louisiana State University Health Sciences Center (LSU-HSC), New Orleans, LA

Membership in Professional Organizations:

Current: International Association of Medical Science Educators (IAMSE)
Team Based Learning Consortium
Society for Pelvic Research
American Physiological Society

Past: Sexual Medicine Society of North America
International Urogynecology Society

Awards and Honors:

- 1995 Graduate Student Research Certificate of Excellence, Poultry Science Association
- 2007 American Urological Association Research Scholar Award
- 2008 American Urological Association Travel Award
- 2008 American Physiological Society Research Career Enhancement Award
- 2009 Nomination: Golden Apple Award, Drexel University College of Medicine
- 2010 Nomination: Golden Apple Award, Drexel University College of Medicine

TEACHING EXPERIENCE AND RESPONSIBILITIES

Creation of Enduring Teaching Materials

Drexel University College of Medicine:

Introduction of quizzes to facilitate formative learning in a first year medical physiology course.

Development of a study guide including practice questions for cumulative final exam for a first year medical physiology course.

Development and delivery of a new lecture on the female sexual response for a first year medical physiology course.

Georgetown University, School of Nursing and Health Sciences

Conversion of teaching materials from overheads to powerpoint presentations for first year undergraduate anatomy and physiology courses (Human Biology 101 and 102).

These power points have since been used as a framework for teaching by subsequent instructors. Introduction of an online blackboard site for both courses. Restructuring of laboratories and incorporation of learning objectives into lab hand-outs.

West Virginia School of Osteopathic Medicine

Development and delivery of a new 2 hour interactive cardiovascular physiology review session utilizing clicker questions for a second year medical school cardiovascular module.

Development and delivery of a new 1.5 hour pathophysiology of heart failure lecture into a second year medical school cardiovascular module.

Development and delivery of a new directed study and clicker question based application exercise on pressure-volume loops into a first year medical physiology course.

Modification of a Team Based Learning session for cardiovascular physiology in a first year medical cardiovascular module. This TBL had been reviewed poorly by students for several years. I collaborated with faculty to identify a new directed study, modify iRAT questions and introduce a new application exercise. These changes resulted in greatly improved student feedback and streamlined the TBL.

Development and delivery of a new directed study and a clicker question based application exercise on autonomic physiology into a first year medical physiology course.

Development and introduction of a new simulation activity in collaboration with a clinical scientist (Dr. Emily Thomas). This hands-on activity utilized mannequins to simulate a dehydration case to facilitate application of physiological principles to a clinical scenario.

Formal Course Responsibilities

- 1997** **St. Mary's University, Winona, MN**
Human Physiology, 4 credit course, junior science majors
Course Instructor (lecture and laboratory)
- 1998-1999** **University of St. Thomas, St. Paul, MN**
Comparative Physiology, 4 credit course, junior science majors
Course Instructor (lecture and laboratory)
- Advanced Physiology, 4 credit course, senior science majors*
Course Instructor (lecture and laboratory)
- Introductory Biology, 4 credit course, 1st year science majors*
Laboratory Instructor
- 1999-2002** **Macalester College, St. Paul, MN**
Human Physiology 4 credit course, sophomore science majors

Course Instructor (lecture and laboratory)

Comparative Physiology, 4 credit course, junior science majors
Course Instructor (lecture and laboratory)

Adaptations to Extreme Environments, 3 credit course, senior science majors
Seminar Leader

Biology of the Human Body, 3 credit course, non-science majors
Course Instructor (lecture)

Women's Health and Reproduction, 3 credit course, non-science majors
Course Instructor (lecture)

Biotechnology and Society: 2 credit course, non-science majors
Course Instructor (lecture)

Study Abroad Faculty Leader: Costa Rica, January semester

2003

Macalester College, St. Paul, MN

Women's Health and Reproduction, 3 credit course, non-science majors
Course Instructor (lecture)

University of St. Thomas, St. Paul, MN

Introductory Biology, 4 credit course, science majors
Course Instructor (lecture and laboratory)

Metro-State University, St. Paul, MN

Comparative Physiology, 4 credit course, junior science majors
Course Instructor (lecture and laboratory)

2007- 2010 Drexel University College of Medicine (DUCOM), Philadelphia, PA

1st year MD students:

Medical Physiology, Interdisciplinary Foundations of Medicine Curriculum

2007-2010: Course Director

2007-2010: Module Coordinator, Infertility Module

2008-2010: Module Coordinator, Shortness of Breath Module

2007-2010: Conference Facilitator, Cardiovascular Physiology

2007-2010: Lecturer, Reproductive Physiology (6 lectures)

2009-2010: Lecturer, Respiratory Physiology (4 lectures)

2007-2008: Lecturer, Cardiovascular Physiology (5 lectures)

Medical Physiology, Program of Integrated Learning Curriculum,
2007-2010: Lecturer, Reproductive Physiology Resource Session

Graduate Students:

2007-2010: Lecturer, Reproductive Physiology (4 lectures)
2009-2010: Lecturer, Renal Physiology (8 lectures)
2007-2008: Lecturer, Cardiovascular Physiology (8 lectures)

Principles of Physiology

2007-2008: Lecturer, Reproductive Physiology (1 lecture)

**2010-2014 Georgetown University, School of Nursing and Health Studies,
(SNHS) Washington, DC**

Human Biology 101 (HSCI 101), 4 credit course, first year nursing, pre-med and health science students.

2010-2012: Course Instructor (lecture and laboratory)
2012- 2014: Course Instructor (lecture)

Human Biology 102 (HSCI 102)

2012-2013: Course Instructor (lecture)
2010-2012: Course Instructor (lecture and laboratory)
2012-2013: Course Instructor (lecture)

Human Science Independent Research (HSCI 311)

2012 (fall): David Barton, Dept. of Human Science, Written Project
"Traumatic brain injury: targeting blood-brain barrier damage via an apolipoprotein dependent pathway".

2012 (fall): Ryan Bellmore, Dept. of Human Science, Written Project
"Potential functions of microtubule-associated proteins beyond microtubule stability".

2012 (spring): Philip Oladeji, Dept. of Nursing, Project "Development of Online Resources to assist incoming students prepare for Human Biology"

2013 (spring): Katherine Schmitz, Dept. of Physics, Senior Research Project, Physics 312. "Development of a protocol for electrical field stimulation of rodent vaginal smooth muscle."

2014-2017 West Virginia School of Osteopathic Medicine (WVSOM), Department of Biomedical Sciences, Lewisburg, WV

2nd year DO students:

Osteopathic Manipulation 1 Module (711)

2014: Lecturer, Pregnancy, Parturition, Lactation (2.5 hrs)
2015-2017: Lecturer- Application Exercise, Cardiovascular Physiology (2 hrs.); Pathophysiology of Heart Failure (1.5 hr); Application Exercise, Heart Failure (2 hrs)

2016: Lecturer- Genital and Urinary System Autonomic Physiology

1st year DO students:

Cardiovascular Module (689)

2015-2017: Module Coordinator

2014-2017: Lecturer- Cardiac Mechanics (1 hr); Cardiac Mechanics Directed Study and Application Exercise (2 hrs); Determinants of Cardiac Output (1 hr)

2015-2017: Lecturer- Autonomics of the Heart (1 hr), Hemodynamics (2 hrs); Conduction System (1 hr); Special Circulations (1 hr); Systemic Circulation (2 hrs)

2015-2017: TBL Facilitator, Integrated Cardiovascular Control (2 hrs)

2016-2017: Lecturer- Smooth Muscle (1 hr); Microcirculation (1 hr); Integrated Autonomic Control Application Exercise (1hr)

2016-2017: Co-director EKG laboratory (12 hrs)

2016-2017 Co-director simulation laboratory (3hrs)

Gastrointestinal Module (652)

2014-2016: Lecturer, Stomach and Small Intestinal Physiology (2 hrs)

Reproductive Module (689)

2014-2016: Lecturer, Male Reproductive Physiology (2.5 hrs)

2018- Louisiana State University Health Sciences, Department of Physiology, New Orleans, LA

Human Physiology for Nursing Students (HLSC 2410):

Co- Director 2018; Director 2019-

Lecturer: Cardiovascular Physiology (6 hrs), Reproductive Physiology (2 hrs), Respiratory Physiology (1 hr), Body Fluid Balance (1 hr)

Human Physiology for Dental Students (Dent 1115)

Lecturer: Cardiovascular Physiology (6 hrs), Reproductive Physiology (2 hrs). Integrative Endocrine Physiology (2 hrs)

Human Physiology for Dental Hygiene Students (DHY 3202)

Lecturer: Bone and Calcium Homeostasis (1 hr)

Pathophysiology for Nursing Students (HLSC3410)

Lecturer: Infertility (1 hr), STIs (1 hr), Shock (1 hr), Blood Cell Disorders (2 hrs), Peripheral Vascular Disorders (1 hr)

Human Physiology: Robert Wood Johnson Foundation Summer Healthcare Professions Education Program (SHPEP)

Lecturer: Heart as a pump

Small group activity facilitator: Heart as a pump

Lab instructor: Measure your own ECG

Postbaccalaureate Research Education Program in Biomedical Sciences (PREP): Coordinator

Workshop facilitator: Awkward mentor; Fostering your own research self-efficacy, Networking, GRE preparation workshops (3), self-efficacy 2

Houses program for 1st and 2nd year MD students (Clinical Skills Integration 100, 200), mentor. (18 one-hour sessions)

Team up Interprofessional Education, Facilitator (7 two-hour sessions)

Dental Grand Rounds (DENT 4112), mentor (10 1 hour sessions)

Educational Activities (National)

- 2018- 2019 **Basic Scientist Educator Lead. Aquifer Sciences Course Development Pilot School Program. [Oct. 2018- June 2019].** <https://www.aquifer.org/courses/aquifer-sciences/>. Provide project leadership and basic science expertise LSUSOM team, selected from a competitive national pool, assigned to author nationally-available virtual patient cases designed to support the integration of basic sciences into clinical medicine. Collaborate with local and national basic scientist and clinical educators, and senior medical students to author, review, revise and beta-test cases and associated resources to ensure content accuracy and relevance to safe and effective patient care.

Undergraduate, Medical, or Graduate Students Trained:

Undergraduate Students: Research mentor

2011 Claudia Nyguen, Georgetown University. Project: Vulvar somatosensory processing in vulvodynia patients”.

Faith Svigos, Georgetown University. Awarded Georgetown Undergraduate Research Opportunity program (GUROP) fellowship. Project: “Changes in contractile protein expression within the bladder of a rodent model of menopause.”

2012-2014 Andrea Wallach. Georgetown University. (Awarded GUROP fellowship). Also served as senior internship supervisor. Project: Effect of menstrual cycle on vulvar somatosensory processing” Poster Presentation: Georgetown University Undergraduate Research Day, spring 2013. Co-author on published manuscript (see references).

Spencer Poiset. Georgetown University. Project: “Effect of estrogen on RhoA/ROK expression in the vaginal muscularis”. Poster Presentation at Georgetown University Undergraduate Research Day, spring 2013

Katherine Connors. Georgetown University. Research mentor for GUROP. Project: “Effect of estrogen on RhoA/ROK expression in the

vaginal muscularis". Poster Presentation at Georgetown University Undergraduate Research Day, spring 2013.

- 2013 Katherine Schmitz: (Research mentor for senior research project, Dept. of Physics) Project: "Development of a protocol for electrical field stimulation of vaginal smooth muscle."
- 2013-2014 Carolyn Williamson. Georgetown University. Also served as supervisor for senior research internship. Project: Effect of Oral Contraceptive on Ovarian Hormone Levels and Pain Thresholds in Provoked Localized Vulvodynia.
- 2013-2014 Alexander Adams. Georgetown University. Also served as supervisor for Senior Research Internship. Project: Spatial Mapping of TRPV1 Pain Receptors in the Murine Bladder Suggests Vascular Expression.
- 2013-2014 Katherine Kechijian. Awarded GUROP fellowship. Project: "Calcium sensitization pathways in the vaginal muscularis". Poster presentation at Georgetown University Undergraduate Research Day, spring 2014.
- 2013-2014 Macarena Basanes: Awarded GUROP fellowship. Project: Training in techniques of *in vitro* measurements of smooth muscle contractility. Poster presentation at Georgetown University Undergraduate Research Day, spring 2014.
- 2018 Camille Loy, LSU-HSC Summer Research scholar. Project: Effect of nicotine on lung structure and function. Summer 2018. Co –mentor with Dr. Xinpeng Yue.

Undergraduate Students: Senior Honor's Project Committees

- 2011-2012 Committee Member: Ashley Huber, Melissa Gadson
2012-2013 Chair and Internal Mentor: Ryan Bellmore, David Barton
Committee Member: Scott Wisniewski, Petar Georgiev, Danielle LeRoe

Medical Students: Research mentor

- 2015 Suzan Bilgesu, DO Candidate, West Virginia School of Osteopathic Medicine
- 2016 Sarah Pyatt, DO Candidate, West Virginia School of Osteopathic Medicine. Poster presentation: 1) WVSOM Research Forum. 2) Osteopathic Medical Conference and Exposition, American Osteopathic Association, Orlando, Florida, 2015
- 2017 Nicole Pepe, DO Candidate, West Virginia School of Osteopathic Medicine. Poster presentation: 1) Greenbrier Student Poster Showcase, West Virginia Osteopathic Medical Association, Lewisburg, WV. 2) Poster and Podium Presentation, American Urological Association Meeting, Boston. Co-author on published abstract (see references)

Lauren Doda, DO Candidate, West Virginia School of Osteopathic Medicine. Poster presentation: Greenbrier Student Poster Showcase, West Virginia Osteopathic Medical Association, Lewisburg, WV. Co-author on published abstract (see references)

Graduate Students: Research mentor

2009-2010 Arika Zahid, MLAS, Department of Professional Studies in the Health Sciences, DUCOM, Philadelphia, PA. (supervisor for summer research project)

Residents: Research mentor

2008-2009 Monique Ruberu, M.D., Department of Obstetrics and Gynecology, DUCOM, Philadelphia, PA. (research mentor for resident research fellowship). Co-author on published abstract and accepted manuscript (see references).

Thesis and Dissertation Committees:

2008-2010 Julia D'Ambrosio, Ph.D., Department of Pharmacology and Physiology, DUCOM, Philadelphia, PA.

2011-2014 Elissa Carney, Ph.D., Department of Oncology, Georgetown University.

Post-Doctoral or Post-Residency Fellows Trained:

2009-2010 Salim Wehbe MD, Urogynecology Fellow, Department of Obstetrics and Gynecology, DUCOM, Philadelphia, PA. (research mentor for Urogynecology fellowship).

RESEARCH AND SCHOLARSHIP

Grants and Contracts:

Funded

2008-2009 Drexel University College of Medicine Professional Enrichment and Growth Grant: Validation of Quantitative Sensory Testing as a Tool to Analyze Pain Thresholds in Patients with Vulvodynia. Role: PI, \$10,000

2008-2013 National Vulvodynia Association Grant: "Afferent Nerve-Ovarian Hormone Interactions in Patients with Provoked Localized Vulvodynia." Role: PI, \$ 25,000

2013- 2015 NIH/ NIDDK, U01, DK10140: "Nociceptive Innervation and Receptors in the Bladder". Role: Co-Investigator, 25 % Effort. PI: Dr. Gerard Ahern, Dept. of Pharmacology, Georgetown University. \$293,895

- 2015-2016 WVCTSI Pilot Grant: "Development of a protocol for vaginal delivery of estrogen in a rodent model of vulvovaginal atrophy with menopause." Role: PI, \$4735
- 2017-2018 West Virginia School of Osteopathic Medicine, Intramural Funding. "The effect of vaginal delivery of estrogen on structure and function of the vaginal muscularis in a rodent model of vulvovaginal atrophy with menopause." Role: PI, \$7736.17
- 2017-2022 LSUHSC-New Orleans Postbaccalaureate Research Education Program in Biomedical Sciences. Role: Program Coordinator (19 % effort). PI Lisa Harrison –Bernard, LSU-HSC. \$1,318,190.

Journal Publications:
Refereed

Duke GE, **Basha ME**, and S Noll. Optimum duration of feed and water removal prior to processing in order to reduce the potential for fecal contamination in turkeys. *Poult Sci.* 76: 516-522, 1997.

Basha ME and GE Duke. The effect of fasting on small intestinal refluxes in the Nicholas turkey. *J Exp Zool* 284 (4): 469-476, 1999.

Basha M, Chang S, Smolock E, Moreland RS, Wein A, and S Chacko. Regional differences in myosin heavy chain isoform expression and maximal shortening velocity of the rat vaginal smooth muscle. *Am J Physiol* 291: R1076-R1084, 2006.

Basha M, Labelle E, Northington G, Wang, T, Wein A, and S Chacko. Functional significance of muscarinic receptor expression within the proximal and distal rat vagina. *Am J Physiol -Regul Comp Integr Physiol* 297: R1486-R1493, 2009.

Northington GM, **Basha M**, Arya LA, Wein AJ, and S Chacko. Contractile response of human anterior vaginal muscularis in women with and without pelvic organ prolapse. *Reprod Sci.* 18 (3): 296-303, 2011.

Burrows LJ, **Basha M**, and AT Goldstein. The effects of hormonal contraceptives on female sexuality: a review. *J Sex Med* 9 (9): 2213-2223, 2012.

Basha ME, Chang S, Lassmann J, Burrows LJ, Wein A, Moreland RS, and S Chacko. Effect of estrogen on molecular and functional characteristics of the rodent vaginal muscularis. *J Sex Med.*10 (5): 1219-30. 2013.

Marx, J, **Basha ME**, Mohanan S, Hypolite J, Chang S, Wein A, Laping N., Zderic S and S Chacko. Effects of Rho-kinase inhibition on myosin light chain phosphorylation and obstruction-induced detrusor overactivity. *Int J Urol* 21(3): 319-324. 2014.

Phan TX, Ton HT, Chen Y, **Basha ME** and GP Ahern. Sex-dependent expression of TRPV1 in bladder arterioles. *Am J Physiol-Renal.* 311(5): F1063-F1073, 2016.

Basha, ME, Bauer, LJ, Modrzakowski, MC, and H. H. Baker. Women in osteopathic and allopathic medical schools: an analysis of matriculants, enrollment and Chief Academic Officers. *J Am Osteopath Assoc.* 118 (5), 2018.

Basha, ME, Kellogg-Spadt, S, Burrows LJ, Ruberu, MS, Wallach, AS, Nazar AS, and KE Whitmore. Thermal and mechanical pain thresholds in women with provoked, localized vulvodynia: a pilot study. *J Am Osteopath Assoc.* 119 (3), 2019.

Book Chapters:

Basha ME. Adaptations to extreme environments. In: Macmillan Science Library, Biology. Ed. Richard Robinson, Macmillan Reference, USA, 2001.

Keiter C, **Basha M**. The Menstrual Cycle, Chapter 31. In: Obstetrics and Gynecology: A Competency-Based Companion, Ed. Belden M, Elsevier, 2010.

Published Abstracts:

Basha ME, Northington GM, Arya LA, Novi JM, Morgan MA, and S Chacko. Altered contractility of the vaginal muscularis in prolapse. *J Pelvic Surg* 11 (Supplement 1): S31- S32, 2005. *Poster Presentation (Northington GM): American Urogynecology Society, Atlanta, Georgia.*

Basha M, Chang S, Smolock E, Moreland RS, Wein A and S Chacko. Regional differences in myosin isoform expression and maximum shortening velocity in the vaginal muscularis. *J Sex Med* 3 (Supplement 1):16, 2006. *Poster Presentation: Sexual Medicine Society of North America, New York, New York.*

Basha M, Chang S, Smolock E, Moreland RS, Wein A, and S Chacko. Regional differences in myosin isoform expression and maximum shortening velocity in the vaginal muscularis. *J Urol* 175 (Supplement):389-390, 2006. *Platform Presentation: American Urology Association, Atlanta, Georgia.*

Basha M, Wang T, Lassmann J, Moreland RS, Wein AJ and S Chacko. Estrogen upregulates smooth muscle myosin isoform SM2 in the rat vaginal wall. *J Urol* 177 (Supplement): 483, 2007. *Poster Presentation: American Urology Association, Anaheim, California.*

Marx JO, **Basha M**, Mohanan, S, Hypolite JA, Chang, S., Hu E., Sulpizio A, Malkowicz SB, Wein AJ, Lapin J, and S Chacko. Rho-kinase inhibitor decreases spontaneous activity in detrusor smooth muscle with partial bladder outlet obstruction. *J Urol* 177 (Supplement): 985, 2007. *Poster Presentation (Marx JO): American Urological Association, Anaheim, California.*

Basha M, Wang T, Lassmann J, Moreland RS, Wein AJ and S Chacko. Estrogen alters myosin heavy chain isoform expression of rat vaginal smooth muscle. *The Physiol* 50 (6): 21, 2007. *Poster Presentation: Sex Steroids in Cardiovascular-Renal Physiology and Pathophysiology, Austin, Texas.*

Chang S, **Basha M**, Wein A, and S Chacko. Estrogen depletion down- regulates protein kinase C pathway in female urethral smooth muscle. *J Urol* 181 (Supplement): 549, 2009. *Poster Presentation (Chang S): American Urological Association, Chicago, Illinois.*

2016-2017 Search Committee West Virginia School of Osteopathic Medicine
Physiology faculty position

School committees

2007-2010 Member, Interdisciplinary Foundations of Medicine Student Promotions
Committee, DUCOM

2007-2010 Member, Educational Coordinating Committee, DUCOM

2007-2010 Member, Interdisciplinary Foundations of Medicine Steering Committee,
DUCOM

2008 Member, Simulation Education Committee, DUCOM

2011-2013 Curriculum and Planning Committee, SNHS, Georgetown University

2015-2016 Affirmative Action Committee, WVSOM

2015-2017 Research Committee, WVSOM

2016- 2017 Educational Resources Committee, WVSOM
Educational Development Committee, WVSOM
Team Based Learning Committee, WVSOM

2017 State Advisory Committee for the faculty, WVSOM

Special Assignments

2011-2014 Judge: Undergraduate Research Day, Georgetown University

2012 Panelist: Health Science Week. "Explore Graduate Student Options in
Health: It's More than just Medical School", Career Center, Georgetown
University (2012)

2012-2013 Judge: NIDDK Short term education program for underrepresented
persons (STEP-Up) Summer Research Symposium

2015 Judge: Mr. WVSOM, West Virginia School of Osteopathic Medicine

2016 Judge: Student DO of the Year, West Virginia School of Osteopathic
Medicine

Professional society committees

2017- International Association of Medical Sciences Education: Public Affairs
committee

2018- Association of Women for Science-Southern Louisiana Chapter:
Secretary

Community Service Activities:

1989 Group coordinator, Big Sisters, Guelph, Ontario, Canada
1998-2001 Meal delivery for people living with AIDS, Open Arms of Minnesota,
Minneapolis, MN
1999 Group leader of environmental awareness trip to Hells Canyon,
Oregon, Vision Program, University of St. Thomas, St. Paul, MN
2003 Group activity supervisor, Catholic Eldercare, Minneapolis, MN
2004-2006 Big sister, Big Sisters, Philadelphia, PA
2014- 2015 Volunteer Soccer Coach, Greenbrier Valley Youth Soccer League
2018- Volunteer at the Rebuild Center for the homeless
2018 AWIS-SL volunteer for Girl Scouts Believe in Girl (B.I.G) event