***Curriculum vitae***

|  |  |
| --- | --- |
| **Date Prepared:** | 05/29/2023 |
| **Name:** | Elizabeth Walker Hubbard |
| **Office Address:** | 5700 Dallas Parkway, Frisco, TX 75034 |
| **Work Phone:**  | 469-515-7234 |
| **Work E-Mail:**  | Elizabeth.hubbard@tsrh.org |
|  |  |

**Education**

|  |  |  |  |
| --- | --- | --- | --- |
| Year | Degree(Honors) | Field of Study(Thesis advisor for PhDs) | Institution |
| 2006 | B.A. | College Degree | Siena College |
| 2010 | M.D. | Medical Degree | Albany Medical College |

**Postdoctoral Training**

|  |  |  |  |
| --- | --- | --- | --- |
| Year(s) | Titles | Specialty/Discipline(Lab PI for postdoc research) | Institution |
| 2015-2016 | Fellowship | Pediatric Orthopedics | Scottish Rite for Children |
| 2011 - 2015 | Residency | Orthopedic Surgery | Duke University Medical Center |
| 2010-2011 | Internship | Orthopedic Surgery | Duke University Medical Center |

**Current Licensure and Certification**

Licensure

North Carolina 3/21/2018- present

Texas 2/29/2015 - present

Board and Other Certification

American Board of Orthopaedic Surgery, 7/25/2018 to present

**Honors and Awards**

|  |  |  |
| --- | --- | --- |
| Year | Name of Honor/Award | Awarding Organization |
| 2013 | William H. Ogden Jr Traveling Fellowship Award  | Duke Orthopedic Chief Resident class of 2013 |
| 2013 | IPOS Case Presentation Award | IPOS |
| 2014 | AOA Resident Leadership Forum | Dr. Hardaker, Program Director |

**Faculty Academic Appointments**

|  |  |  |  |
| --- | --- | --- | --- |
| Year(s) | Academic Title | Department | Academic Institution |
| 2016-2018 | Assistant Professor | Orthopedic Surgery | University of Kentucky |
| 2018-2022 | Assistant Professor | Orthopedic Surgery | Duke University Medical Center  |
| 2023-Current | Associate Professor | Orthopedic Surgery | UT Southwestern Medical Center |

**Appointments at Hospitals/Affiliated Institutions**

|  |
| --- |
| Past |
| Year(s) | Position Title | Department/Division | Institution |
| 2016-2018 | Assistant Professor | Orthopedic Surgery | University of Kentucky |
| 2016 - 2018 | Assistant Professor | Orthopedic Surgery | Shriner’s Hospital for Children |
| 2018-2022 | Assistant Professor | Orthopedic Surgery | Duke University Medical Center  |
| Current |
| Year(s) | Position Title | Department/Division | Institution |
| 2022-Present | Associate Professor of Orthopaedics | Orthopedics | Scottish Rite for Children |
| 2022-Present | Associate Professor of Orthopaedics | Orthopedics | UT Southwestern Medical Center |
| 2022-Present | Associate Professor of Orthopaedics | Orthopedics | Childrens Medical Center Dallas |
| 2022-Present | Orthopedic Surgeon, Affiliate Provider | Orthopedics | Cooks Medical Center, Prosper |
| 2022-Present | Orthopedic Surgeon, Affiliate Provider | Orthopedics | Texas Health Presbyterian, Dallas |

**Other Professional Positions**

*N/A*

**Major Administrative/Leadership Positions**

|  |  |  |
| --- | --- | --- |
| Year(s) | Position Title | Institution |
| 2018-2022 | Director of Medical Student Education, Department of Orthopaedic Surgery | Duke University Medical Center |
| 2021-2022 | Orthopaedic Faculty Advisor and Moderator, Pediatric Surgery Patient Quality and Safety Team | Duke University Medical Center |

**Committee Service**

|  |  |  |
| --- | --- | --- |
| Year(s) | Name of Committee | Institution/Organization |
| **Duke University Medical Center** |
| 2018-2020 | Curriculum Committee | Duke University School of Medicine |
| 2018-2022 | Department of Orthopaedic Surgery Education Committee | Duke University Medical Center, Department of Orthopaedic Surgery |
| 2018-2022 | Department of Orthopaedic Surgery Resident Selection Committee | Duke University Medical Center, Department of Orthopaedic Surgery |
| **University of Kentucky Medical Center / Shriner’s Hospital Lexington** |
| 2016-2018 | Department of Orthopaedic Surgery Residency Review Committee | University of Kentucky Medical Center, Department of Orthopaedic Surgery |
| 2016-2018 | Pediatric Orthopaedic Resident Education Coordinator | Shriner’s Hospital, Lexington |

**Professional Societies**

|  |  |
| --- | --- |
| Dates | **Society Name, member** |
| 2008-Present | Alpha Omega Alpha |
| 2010-Present | American Academy of Orthopedic Surgery |
| 2015-Present | Piedmont Orthopedic Society |
| 2016-Present | Pediatric Orthopedic Society of North America |
| 2016-Present | Limb Lengthening and Reconstruction Society  |
| 2021-Present | Ruth Jackson Orthopaedic Society |

|  |
| --- |
| **National/International Committee Memberships** |
| 2018 - 2020 | POSNA E-Editorial Committee | POSNA |
| 2018 -- 2020 | POSNA Core Curriculum Committee | POSNA |
| 2018 - Present | LLRS Patient Education Committee | LLRS |
| 2021 - Present | POSNA Educational Courses Committee | POSNA |

**Grant Review Activities**

*N/A*

**Editorial Activities**

|  |  |
| --- | --- |
| Year(s) | Journal Name |
| Editor/Associate Editor |
| 2021 to present | Journal of Pediatric Orthopaedic Society of North America—Editor of General Orthopaedics |
| Editorial Board |
| 2021 to present | Journal of Pediatric Orthopaedic Society of North America |
|  |  |
| Ad Hoc Reviewer |
| 2019 to present | Journal of Shoulder and Elbow Surgery |
| 2021 to present  | Journal of Pediatric Orthopedic Surgery |
| 2021 to present | Journal of Pediatric Orthopaedic Society of North America |

**Grant Support**

|  |  |
| --- | --- |
| Past |  |
| 2013-2015 | Orthopaedic Research and Education FoundationThe Effect of Computer-Assisted Surgery Training In The Placement Of Iliosacral Screws. Co-Investigator$3,500 |
| 2013-2014 | Piedmont Orthopedic SocietyThe Effect of Computer-Assisted Surgery Training In The Placement Of Iliosacral Screws. Co-Investigator$5,000 |
| 2017-2018 | Pediatric Orthopaedic Society of North AmericaEffect of foot abduction brace type on brace-wear compliance in idiopathic clubfootPrimary Investigator$1,000 |
| 2017-2018 | Kosair CharitiesEffect of foot abduction brace type on brace-wear compliance in idiopathic clubfootPrimary Investigator$17,000 |

**Clinical Trials Activities**

*N/A*

**Teaching Activities**

|  |  |
| --- | --- |
| Year(s) | Activity |
| Medical and graduate school didactic and small group teaching |
|  | **University of Kentucky / Shriner’s Hospital Lexington** |
| 2016-2018 | Daily preoperative and postoperative pediatric orthopedic conference with orthopaedic residents, 6:30am to 7:30am |
| 2016-2018 | Pediatric Orthopaedic Journal Club with residents, 1-3pm one Friday per month |
| 2016-2018 | Pediatric Orthopaedic Resident Education/Lectures, 1-3pm two Fridays per month |
| 2016-2018 | Surgical skills workshop with residents, 1-3pm one Friday per month |
|  | **Duke University Medical Center, Department of Orthopaedic Surgery** |
| 2018-2022 | Weekly preoperative and postoperative pediatric orthopaedic conference with residents, Mondays 6am to 7am |
| 2018-2022 | Biweekly pediatric orthopaedic didactic teaching, Mondays 7am to 8am  |
| 2018-2022 | Orthopaedic Residency CORE Lecturer series 2 times per academic year, Tuesdays 6:30am to 7:30am |
| 2018-2022 | Monthly Pediatric Orthopaedic Duke-UNC Journal club, 6:30pm to 8:00pm  |
| 2018-2022 | Monthly Pediatric Orthopaedic complex case conference 6:30pm to 8:00pm |
| Committees concerned with medical and graduate student education |
| 2018 to 2021 | Curriculum Committee, Duke University School of Medicine  |
| 2018 to 2022 | Medical and Residency Education Committee, Department of Orthopaedic Surgery, Duke University Medical Center |
| Medical student rotations |
| 2018-2022 | Director of Medical Student Education and Faculty Leader of Visiting Student Program for Orthopaedic Surgery |
| 2018-2022 | Primary Care Leadership Track, Faculty Member |
| Graduate and Medical Student Trainees |
| 2018-2022 | Orthopaedic Surgery Interest Group, Faculty Leader |
|  | **Scottish Rite for Children, Department of Orthopedic Surgery** |
| 2022-Present | Weekly preoperative pediatric orthopedic indications conference, Mondays 4:30-6:30pm |
| 2022-Present | Weekly postoperative pediatric orthopedic conference, Fridays 7am-8am |
| 2022-Present | Weekly preoperative/postoperative fracture and sports conference, Fridays 6am-7am |
| 2022-Present  | Bimonthly journal club, Thursdays 7pm-9pm |
| Graduate and Medical Student Trainees |
| 1/20/23-1/21/23 | Essentials of Lower Extremity Reconstruction, Moderator and Table Instructor, Scottish Rite for Children, Dallas TX |

**Graduate Medical Education Lectures**

|  |  |  |
| --- | --- | --- |
| Date | Title | Location |
| 11/20/18 | Vitamin D Metabolism and Metabolic Disorders: A case-based discussion | Duke University School of Medicine |

**Postgraduate Medical Education Lectures**

|  |  |  |
| --- | --- | --- |
| Date | Title | Location |
| 9/2/16 | Pediatric lower extremity trauma and Femur Fracture Sawbones lab | Shiner’s Hospital, Lexington KY |
| 2/17/17 | Clubfoot deformity and Clubfoot Casting Lab | Shiner’s Hospital, Lexington KY |
| 10/20/17 | Pediatric OITE Review: Upper and lower extremity trauma, Non-Accidental trauma, pediatric sports | Shiner’s Hospital, Lexington KY |
| 10/27/12 | Pediatric OITE Review: DDH and hip pathology, upper extremity conditions, infection | Shiner’s Hospital, Lexington KY |
| 11/17/17 | Pediatric Angular Limb Deformity and Blounts Sawbones Lab | Shiner’s Hospital, Lexington KY |
| 3/1/2018 | Common Conditions in Pediatric Athletes | Shiner’s Hospital, Lexington KY |
| 9/12/18 | Deformity Correction with Hexapod Frames | Duke University Medical Center, Durham, NC |
| 12/4/2018 | Pediatric Elbow Fractures | Duke University Medical Center, Durham, NC |
| 3/27/19 | Lower Extremity Angular Deformity in Pediatric Patients | Duke University Medical Center, Durham, NC |
| 7/25/19 | Management of the Spastic Hip in Cerebral Palsy | Duke University Medical Center, Durham, NC |
| 10/16/19 | Clubfoot and Pediatric Foot Deformities | Duke University Medical Center, Durham, NC |
| 12/8/20 | Neonatal Brachial Plexus Palsy | Duke University Medical Center, Durham, NC |
| 5/16/21 | Skeletal Growth and Management of Limb Length Difference in Pediatric Patients | Duke University Medical Center, Durham, NC |
| 10/12/21 | Pediatric Foot Deformities | Duke University Medical Center, Durham, NC |
| 9/24/2022 | Limb alignment and joint orientation, lecture and sawbones lab | Scottish Rite for Children, Dallas TX |
| 10/14/22-10/14/22 | Perry Initiative Course Instructor | Scottish Rite for Children, Dallas TX |
| 11/29/2022 | Fitbone education and cadaver lab | Scottish Rite for Children, Dallas TX |
| 2/3/23-2/4/23 | Controversies in Pediatric Limb Reconstruction | Scottish Rite for Children, Dallas TX |
|  |  |  |

**Invited Lectures**

|  |  |  |
| --- | --- | --- |
| Year(s) | Title | Location |
| International |
| 2015 | The Effect of Computer-Assisted Surgery Training in the Placement of Iliosacral Screws Osteosynthese (*presented by PI Dr. Robert Zura)* | Osteosynthese International Annual Meeting of the Gerard Küntscher Society Brussels, Belgium |
| 5/26/23 | Controversies in Pediatric Limb Reconstruction:Hemiplateau ElevationCongential Pseudoarthrosis of the Tibia | Cappagh Foundation DatyCappagh National Children’s HospitalDublin, Ireland |
| National |
| 2017 | Is less more? Assessing the value in early clinical and radiographic follow-up for Operative Supracondylar Humerus Fractures. | American Academy of Orthopedic Annual MeetingSan Diego, CA |
| 2017 | Is the Story Over? Curve Progression after Bracing in AIS  | European Pediatric Orthopedic Society/Pediatric Orthopedic Society of North America Combined meetingBarcelona, Spain |
| 2018 | Retrograde stainless steel flexible nails have superior resistance to bending in distal third femoral shaft fractures | American Academy of Orthopedic Surgeons Annual MeetingNew Orleans, LA |
| 2021 | Effect of Foot Abduction Brace Type on Brace-Wear Compliance in Idiopathic Clubfoot | Pediatric Orthopaedic Society of North America Annual MeetingDallas, TX |
| 2021 | Management of Leg Length Discrepancy in Pediatric Patients: Lengthening with an External Fixator Instructional Course Lecture | American Academy of Orthopaedic Surgery Annual MeetingSan Diego, CA |
| 2022 | Management of Leg Length Discrepancy in Pediatric Patients: Lengthening with an External Fixator Instructional Course Lecture | American Academy of Orthopaedic Surgery Annual MeetingChicago, IL |
| 2022 | Deformity Correction in the Skeletally Immature Symposium | American Academy of Orthopaedic Surgery Annual MeetingChicago, IL |
| 2023 | Management of Leg Length Discrepancy in Pediatric Patients: Lengthening with an External Fixator Instructional Course Lecture | American Academy of Orthopaedic Surgery Annual MeetingLas Vegas, NV |
| 2023 | Complications in Limb Reconstruction Surgery –Can We Report Them Reliably | Limb Lengthening and Reconstruction Society Annual MeetingLake Tahoe, CA |
| Regional/Local |
| 2013 | Management of Congenital Pseudoarthrosis of the Tibia: Long-Term Follow-up of a Single Surgeon’s Experience  | The Piedmont Orthopedic SocietySea Island, GA |
| 2013 | Management of Congenital Pseudoarthrosis of the Tibia: Long-Term Follow-up of a Single Surgeon’s Experience  | North Carolina Ortho AssociationWhite Sulfur Springs, WV |
| 2014 | The Effect of Computer-Assisted Surgery Training in the Placement of Iliosacral Screws | Southern Orthopedic AssociationAsheville, NC |
| 2015 | The Effect of Computer-Assisted Surgery Training in the Placement of Iliosacral Screws | The North Carolina Orthopedic AssociationKiawah, SC |
| 2017 | Pediatric Orthopaedic Update UK College off Nursing Continuing Education Clinical Acute and Primary Care Pediatric Nursing Update | Lexington, KY |
| 2017 | Pediatric Trauma: An Evidence Based-Approach | Kentucky Orthopedic SocietyLouisville, KY |
| 2023 | Considerations Relating to Body Habitus | Pediatric Orthopedic Education Symposium, Dallas TX |
| Invited Posters |  |  |
| 2012 | The Terrible Triad of Subscapularis Insufficiency | Southern Orthopedic AssociationWhite Sulfur Springs, WV |
| 2012 | Review of Two Approaches for the Care of Elderly Patients | Southern Orthopedic AssociationWhite Sulfur Springs, WV |
| 2015 | The Effect of Computer-Assisted Surgery Training In The Placement Of Iliosacral Screws | American Ortho CORD ConferenceProvidence, RI |
| 2019 | Is spinal growth finished at Sanders stage 7 in females with adolescent idiopathic scoliosis? | American academy of Orthopedic Surgeons Annual MeetingLas Vegas, NV |
| 2019 | The avoidable costs of interfacility transfers for non-urgent pediatric supracondylar humerus fractures (Presented by co-author) | American Academy of Orthopedic SurgeonsLas Vegas, NV |
| 2019 | Cost of interfacility transfer for non-urgent fractures | Pediatric Orthopedic Society of North America Annual MeetingCharlotte, NC |

**Technological and Other Scientific Innovations**

*N/A*

**Service to the Community**

|  |  |  |
| --- | --- | --- |
| Year(s) | Role | Organization or institution |

|  |  |  |
| --- | --- | --- |
| 2019-2022 | Faculty Educator, Perry Initiative  | Duke University Medical School, Department of Orthopaedic Surgery |
| 2021-2022 | Youth volleyball coach | I9 Sports, Raleigh NC |
| 2/6/16-2/12/16 | San Pedro Sula, Honduras Scoliosis Mission Trip | World Pediatric Project |
| 1/21/17-1/28/17 | San Pedro Sula, Honduras Scoliosis Mission Trip | World Pediatric Project |
| 5/12/18-5/19/18 | San Pedro Sula, Honduras Scoliosis Mission Trip | World Pediatric Project |
| 1/26/19-2/2/19 | San Pedro Sula, Honduras Scoliosis Mission Trip | World Pediatric Project |
| 2/1/20-2/8/20 | San Pedro Sula, Honduras Scoliosis Mission Trip | World Pediatric Project |
| 7/16/22-7/23/22 | San Pedro Sula, Honduras Scoliosis and Orthopaedic Mission Trip | World Pediatric Project |
| 2/5/23-2/11/23 | San Pedro Sula, Honduras Scoliosis Mission Trip | World Pediatric Project |

**Bibliography**

**Peer-Reviewed Publications**

Original Research Articles

|  |  |
| --- | --- |
|  | Mechas C, Mayer R, Iwinski C, Riley S, Talwalkar V, Prusick V, Walker J, Muchow R, **Hubbard EW**, Zuelzer D. The costs of interfacility transferes for nonurgent pediatric supracondylar humerus fractures. J Ped Orthop. 2022 Aug 1;42(7):e727-e731. PMID 35543599.  |
|  | **Hubbard EW**, Rathjen KE, Elliott M, et al. Predictors of appointment adherence following operative treatment of pediatric supracondylar humerus fractures: which patients are not following up? J Ped Orthop B. 2022 Jan 1; 31(1):25-30. PMID 33136798 |
|  | **Hubbard EW**, Liu RW, Iobst CA. Understanding skeletal growth and predicting limb-length inequality in pediatric patients. J Am Acad Orthop Surg. 2019 May 1; 27(9):312-319. PMID: 31026239. |
|  | Mayer S, **Hubbard EW**, Sun D, Lark R, Fitch R. Gradual deformity correction in Blount disease. J Ped Orthop 2019 May/Jun; 39(5):257-262. PIMD: 30969256. |
|  | **Hubbard EW**, Thompson, RM, Jo, C-H, Pierce, WA, Riccio, AI, and Wimberly, RL. Retrograde Stainless Steel Flexible Nails Have Superior Resistance to Bending in Distal Third Femoral Shaft Fractures. J Pediatr Orthop 2019 Apr; 39(4):e258-e263. PMID: 30451812. |
|  | Kouri, A, Herron, JS, Lempert, N, Oliver, M, **Hubbard, EW**, Talwalkar, VR, Muchow, RD, and Iwinski, HJ. "Magnetic Resonance Imaging in Infantile Idiopathic Scoliosis: Is Universal Screening Necessary?" Spine Deformity 2018 Nov-Dec; 6(6):651-655. PMID: 30348339. PMCID: 30348339. |
|  | Thompson R, **Hubbard EW**, Elliott M, Riccio A, Sucato D. Is Less More? Assessing the Utility of Early Clinical and Radiographic Follow-up for Operative Supracondylar Humerus Fractures. J Child Orthop 2018 Oct 1; 12(5):502-508. PMID: 30294376. |
|  | **Hubbard EW**, Riccio A. “Evidence Based Medicine in Pediatric Orthopaedic Trauma.” Ortho Clinics of North America 2018 Apr; 49(2):195-210. PMID: 29499821. |
|  | Klement MR, **Hubbard EW**, Wellman SS, Lachiewicz PF. Acute intraoprosthetic dissociation of a dual-mobility hip in the United States. Am J Orthop 2017 May/June; 46(3):E154-E159. PMID: 29024544. |
|  | Thompson R, **Hubbard EW,** Jo C, Virostek D, Karol L. Brace success is related to curve type in patients with adolescent idiopathic scoliosis. J Bone Joint Surg Am 2017 Jun 7; 99(11):923-928. PMID: 28590377. |
|  | Caputo A, Michael KW, Chapman TM, Jennings JM, **Hubbard EW**, Isaccs RE, Brown CR. Extreme Lateral Interbody Fusion (XLIF) for the Treatment of Adult Degenerative Scoliosis. J Clin Neuroscience 2013 Nov; 20(11):1558-1563. PMID: 23906522. |

Reviews, Chapters, Monographs and Editorials

|  |  |
| --- | --- |
|  | **Hubbard EW**, Cherkashin A, Samchukov M, Podeszewa DA. “The evolution of guided growth for lower extremity angular correction: Current concept review. Journal of the Pediatric Orthopaedic Society of North America, 5(3). <https://doi.org/10.55275/JPOSNA-2023-738> |
|  | **Hubbard EW**. “Medial and lateral epicondyle fractures.” *AAOS Resident Curriculum*, 14 Sept 2022. <https://rock.aaos.org/coursecontent.aspx?id=6004066> |
|  | **Hubbard EW**. “Nursemaid’s elbow.” *AAOS Resident Curriculum,* 9 Sept 2022. <https://rock.aaos.org/coursecontent.aspx?id=6004068> |
|  | **Hubbard EW**. “Olecranon fractures.” *AAOS Resident Curriculum*, 14 Sept 2022. <https://rock.aaos.org/coursecontent.aspx?id=6004069> |
|  | **Hubbard EW**. “Proximal radius fractures.” *AAOS Resident Curriculum,* 11 Sept 2022. <https://rock.aaos.org/coursecontent.aspx?id=6004067>  |
|  | **Hubbard EW.**“Metabolism” *Orthopaedic Knowledge Update: Pediatrics 6.*AAOS. 2021. ISBN 978-1-9751-5268-0.  |
|  | **Hubbard EW.** “Pediatric Pelvis, Hip and Femur Fractures” *Orthopaedic Knowledge Update 13.* AAOS. 2020. ISBN: 978-1-9751-2952-1.  |
|  | **Hubbard WE**, Riccio AI. “Complications of Fractures in Children” Mencio G (ed) and Swiontkowski MF (ed) *Green’s Skeletal Trauma in Children, 6th ed.* Elsevier, 2020. ISBN: 978-0-323-61336-1. |
|  | **Hubbard EW**. “Spondylolysis and Spondylolisthesis.” Miller MD (ed), Hart JA (ed), MacKnight MJ (ed). *Essential Orthopaedics, 2nd ed.*  Elsevier 2019. ISBN: 978-0-323-568944. |
|  | **Hubbard EW**. “Pediatric Discitis.” Miller MD (ed), Hart JA (ed), MacKnight MJ (ed). *Essential Orthopaedics, 2nd ed.*  Elsevier 2019. ISBN: 978-0-323-568944. |
|  | **Hubbard EW**, Sucato D. Neuromonitoring in adolescent idiopathic scoliosis. Mummaneni PV (ed), Park P (ed), Kanter AS (ed), Crawford C (ed), Glassman S (ed). *Spinal Deformity: A case-based approach to managing and avoiding complications.* Springer, 2018. ISBN: 978-3-319-86772-4. |

Editorial Works

|  |  |
| --- | --- |
|  | Journal Editor of JPOSNA Special Supplement: “Advances in Pediatric Orthopaedic Education and Technical Training” *JPOSNA*, 15 Aug 2022. [Vol. 4 No. S1 (2022): Special Edition - August 2022 | Journal of the Pediatric Orthopaedic Society of North America (jposna.org)](https://www.jposna.org/index.php/jposna/issue/view/13) |

Non-Peer Reviewed Works

|  |  |
| --- | --- |
| 1.  | “Editors Note” *JPOSNA*, 15 Aug 2022. [Vol. 4 No. S1 (2022): Special Edition - August 2022 | Journal of the Pediatric Orthopaedic Society of North America (jposna.org)](https://www.jposna.org/index.php/jposna/issue/view/13) |