

# REBECCA SPRAGG, MSPO, CPO

beccaspragg@gmail.com ▪ 517-294-0638  
417 Normandy Rd ▪ Royal Oak, MI 48073

## EDUCATION

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- Georgia Institute of Technology**, Atlanta, GA May 2008
- Master of Science in Prosthetics and Orthotics
  - Thesis: Natural Progression of Non-Synostotic Plagiocephaly
- Case Western Reserve University**, Cleveland, OH May 2006
- Bachelor of Science in Biomedical Engineering, Orthopedic Biomaterials
  - Senior Research: Cell Seeded Interface for Tendon Scaffolds
  - Minor in Sports Medicine
- James Cook University**, Townsville, QL, Australia Fall 2003
- Semester study abroad program; course work in engineering and sports medicine.

## CERTIFICATIONS

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- National Commission for Orthotic and Prosthetic Education
- **Resident Supervisor** May 2015
- American Board for Certification in Orthotics, Prosthetics, and Pedorthics
- **Certified in Prosthetics** March 2012
  - **Certified in Orthotics** March 2010

## TEACHING EXPERIENCE

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- Resident Supervisor** May 2015 – present
- Organize resident rotations at the Pediatric Center to ensure exposure to all aspects of pediatric care, including specialty clinics.
  - Provide clinical education for residents on plagiocephaly and scoliosis treatments.
  - Responsible for educating medical physician residents as well as orthotic and prosthetic graduate students during their rotations in pediatric orthotics and prosthetics.
- Journal Club Moderator** February 2012 – present
- Review resident presentations and provide constructive feedback to improve understanding of clinical concepts for orthotic and prosthetic residents.
  - Developed a hands-on activity on biomechanical alignment and gait analysis, including Compass, LASAR Posture, Dartfish Express, and G-walk.
  - Lead discussions to encourage evidence based practice and cultivate critical thinking skills in residents and clinicians.
  - Create and distribute schedule to ensure timely completion of resident requirements.
- Resident Mentor** September 2012 – September 2014
- Worked one-on-one with residents during the 8 to 12 week rotation through the Detroit Medical Center.
  - Implemented board exam preparation classes for residents and board eligible orthotists and prosthetists.

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## RELEVANT EXPERIENCE

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**Wright & Filippis**, Detroit, MI

July 2011 – present

*Certified Prosthetist Orthotist*

- Developed and executed treatment plans for complicated synostotic and non-synostotic plagiocephaly cases using a variety of cranial remolding bands.
- Attended a weekly orthopedic surgery clinic as part of the team approach to scoliosis. Provided education and treatment for patients with scoliosis from infantile to adolescent.
- Treated pediatric amputees including complex cases of proximal femoral focal deficiency and traumatic amputation.
- Enhanced strong communication and customer service skills through interaction with staff, physicians, therapists, patients, and families.

**Michigan Orthopedic Services**, Detroit, MI

August 2010 – June 2011

*Prosthetic Resident*

- Attended comprehensive amputee clinics as part of the rehabilitation team to create complete treatment plans for patients with amputation secondary to vascular conditions and traumatic causes.
- Compiled a comprehensive review of phantom pain management for educational presentation to prosthetic clinical staff.
- Created and presented a one-day educational seminar on evaluation and treatment of plagiocephaly for residents and clinical staff.

**National Orthotics and Prosthetics Company**, Philadelphia, PA

August 2009 – July 2010

*Certified Orthotist*

- Evaluated patients with a variety of neuromuscular and orthopedic diagnoses including the full age spectrum to develop and institute appropriate orthotic treatment plans.
- Interpreted patient evaluations to properly modify and fabricate orthotic devices.

**Mary Free Bed Rehabilitation Hospital**, Grand Rapids, MI

June 2008 – July 2009

*Orthotic Resident*

- Designed a research project to assess differences between copolymer and Surlyn cranial remolding orthoses.
- Gained experience with writing, revising, and oral review of research protocols for approval by Human Subjects committee and Institutional Review Board.

**The Cleveland Clinic Foundation**, Cleveland, OH

January 2005 – July 2006

*Research Assistant*

- Participated in project studying tissue engineered tendon scaffolds; worked with PI and PhD student.
- Learned and practiced proper research techniques include tissue staining and analysis, surgical techniques, protocol development, and manuscript writing and submission.
- Performed tissue sample analysis using UNIX.
- Acquired experience with writing and revising protocols for research project approval by the Institutional Animal Care and Use Committee (IACUC).

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## PUBLICATIONS AND PRESENTATIONS

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- Spragg R. (2015) *Treatment of torticollis with mastoid extensions*. Presented at the STARsummit Annual Meeting, Orlando, FL.
- Spragg R, Steele N. (2012) *Methods for Evaluation of Head Shape Deformities in Infants*. Educational program on pediatric orthotics presented by Wright & Filippis.
- Spragg R. (2011) *Treating plagiocephaly in older children*. Presented at the STARsummit Annual Meeting, Orlando, FL.
- Spragg R and Smith A. (2009). *Natural progression of non-synostotic plagiocephaly*. Presented at the Association of Children's Prosthetic-Orthotic Clinics Annual Meeting, Tempe, AZ.
- Spragg R and Smith A. (2008). *Natural progression of non-synostotic plagiocephaly*. Presented at the Georgia Society of Orthotists and Prosthetists Annual Meeting, Atlanta, GA.
- Derwin KA, Baker AR, **Spragg RK**, Leigh DR, Farhat W, Iannotti JP. *Regional variability, processing methods, and biophysical properties of human fascia lata extracellular matrix*. J Biomed Mater Res A. 2008 Feb;84(2):500-7.
- Androjna C, **Spragg RK**, Derwin KA. *Mechanical conditioning of cell-seeded small intestine submucosa: a potential tissue-engineering strategy for tendon repair*. Tissue Eng. 2007 Feb;13(2):233-43.
- Derwin KA, Baker AR, **Spragg RK**, Leigh DR, Iannotti JP. *Commercial extracellular matrix scaffolds for rotator cuff tendon repair. Biomechanical, biochemical, and cellular properties*. J Bone Joint Surg Am. 2006 Dec; 88(12):2665-72.

## PROFESSIONAL MEMBERSHIP

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- Association of Children's Orthotic-Prosthetic Clinics

## HONORS AND ACTIVITIES

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- New Investigator Research Award, 2009, Association of Children's Prosthetic Orthotic Clinics
- Captain of the Women's Varsity Track & Field team at Case Western Reserve University
- Selected to participate in the LeaderShape Institute at Case Western Reserve University

## VOLUNTEER SERVICE

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- Extremity Games, 2007 and 2008