

November 4, 2022

CURRICULUM VITAE

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• **EDUCATION**

- Princeton University (September, 1989-May, 1993): *A.B. Awarded in Psychology/East Asian Studies, May 1993*
- University of California-Santa Cruz (September, 1993-May, 1995): *B.A. Awarded with Honors in Molecular, Cellular and Developmental Biology, June 1995*
- University of Medicine and Dentistry of New Jersey-New Jersey Medical School, Newark, New Jersey (September, 1995-May, 1999): *M.D. Awarded, May, 1999*

• **POSTDOCTORAL TRAINING**

- Saint Barnabas Medical Center-Livingston, New Jersey (July, 1999-June, 2000): *Transitional Residency Program*
- University of Medicine and Dentistry of New Jersey-New Jersey Medical School, Newark, New Jersey (July, 2000 to June, 2003): *Residency Training Program in Physical Medicine and Rehabilitation*
- University of Medicine and Dentistry of New Jersey-New Jersey Medical School/Children's Specialized Hospital, Mountainside, New Jersey (July, 2003 to June, 2005): *Pediatric Rehabilitation Medicine Fellowship*

• **EMPLOYMENT**

- Children's Specialized Hospital, 150 New Providence Road, Mountainside, NJ 07092 (January, 2006 to November 2021)
- Pediatric Rehabilitation Specialists, LLC (Owner), 170 Hill Hollow Road, Watchung, NJ 07069 (April, 2021 to present)

• **MILITARY**

- none

• **LICENSURE**

- Medical Doctor, New Jersey (June 1, 2021 to June 30, 2023)

- **CERTIFICATION**
 - USMLE Step 1 (June, 1997)
 - USMLE Step 2 (August, 1998)
 - USMLE Step 3 (April, 2000)
 - BLS re-certification (July, 2021)
 - PALS re-certification (July, 2017)
 - Board Certification-Physical Medicine and Rehabilitation Part I (May 2003)
 - Board Certification-Physical Medicine and Rehabilitation Part II (May 2004, recertified July, 2014)
 - Board Certification-Pediatric Rehabilitation (November 2006, recertified July, 2014)
 - IHI-Basic Certificate in Safety and Quality (2018)
 - Professional Association of Dive Instructors (PADI) – Divemaster Certification
- **NARCOTICS CERTIFICATION**
 - CDS (October 31, 2022 to October 31, 2023)
 - DEA (July 7, 2021 to August 31, 2024)
- **UNIVERSITY APPOINTMENTS**
 - Clinical Instructor, Department of Physical Medicine and Rehabilitation, Rutgers-New Jersey Medical School (July, 2003-January, 2005)
 - Clinical Assistant Professor, Department of Physical Medicine and Rehabilitation, Rutgers-New Jersey Medical School (January, 2005 to July, 2021)
 - Clinical Assistant Professor, Department of Pediatrics, Rutgers-Robert Wood Johnson Medical School (May 22, 2006 to present)
 - Clinical Associate Professor, Rutgers-New Jersey Medical School (July, 2021 to present)
- **HOSPITAL APPOINTMENTS**
 - Chief, Section of Psychiatry (August 2013 to October 2021)
 - Newark Beth Israel Hospital (February 15, 2006 to present)
 - Morristown Medical Center (September 11, 2012 to March 31, 2020)
- **OTHER PROFESSIONAL POSITIONS AND MAJOR VISITING APPOINTMENTS**
 - Medical Advisor-**Stay Focused, Inc.** (non-profit organization that provides an adaptive SCUBA program for young adults with disabilities) (January, 2003 to present)
 - Founder and Medical Advisor-**Peak Potential, Inc.** (non-profit organization that provides adaptive, therapeutic rock climbing programs for children with disabilities) (January, 2001 to present)
 - Advisor-**Diveheart, Inc.** (non-profit organization that provides an adaptive SCUBA program for pediatric and adult populations) (January, 2010 to January, 2015)
 - Advisor, NeuroTechR3 (Neuro-Rehabilitation Technology Company) (August, 2022 to present)
- **AWARDS AND HONORS**

- Todd Harris '35 Varsity Award (Princeton University Men's Varsity Fencing Team) (1991)
- Physical Medicine and Rehabilitation Medical Student Award (University of Medicine and Dentistry-New Jersey Medical School) (1993)
- Keynote Speaker, Mid-Winter Training Conference, New Jersey District of Key Club International (March 8, 2008)
- Case Foundation Finding Fearless Changemaker Award (2012)
- Rutgers-New Jersey Medical School Department of PM&R Mentor Award (2019)
- **BOARD OF DIRECTORS/TRUSTEES**
 - Past President and Founder-**Peak Potential, Inc.** (non-profit organization that provides adaptive, therapeutic rock climbing programs for children with disabilities) (January, 2001 to January, 2006)
 - Trustee-**Peak Potential, Inc.** (non-profit organization that provides adaptive, therapeutic rock climbing programs for children with disabilities) (January, 2006 to present)
 - President of the Medical Staff-Board of Trustees, Children's Specialized Hospital (January, 2014 to December, 2017)
 - Board of Trustees, Children's Specialized Hospital (January, 2017 to 2018)
 - Trustee-Stay-Focused, Inc. (non-profit organization that provides adaptive SCUBA diving programs for young adults with mobility challenges) (January, 2015 to December, 2020)
 - Advisory Board Member, NeuroTechR3, stroke rehabilitation technology (August, 2022 to present)
- **MAJOR COMMITTEE ASSIGNMENTS**
 - Undergraduate Medical Education Committee, UMDNJ-New Jersey Medical School, Department of Physical Medicine and Rehabilitation (July, 2007-July, 2015)
 - New Jersey State Emergency Medical Services for Children Advisory Council (January, 2008-January, 2012)
 - Adaptive Sports Committee, American Academy for Cerebral Palsy and Developmental Medicine (September, 2013 to September, 2019)
 - Quality Committee of the Board, Children's Specialized Hospital (January, 2013 to January, 2018)
 - Operations Committee, Children's Specialized Hospital (January, 2013 to January, 2018)
 - Credentials Committee (January, 2013 to present)
 - Engagement Pillar, Children's Specialized Hospital (January, 2013-January, 2015)
 - Quality Pillar, Children's Specialized Hospital (January, 2015 to January, 2016)
 - Finance Pillar, Children's Specialized Hospital (January, 2017 to January, 2018)
 - USA Climbing Paracimbing Classification Task Force (January, 2019 to present)

- New Jersey Autism Center of Excellence (NJACE) Advisory Committee (July 2021 to 2022)
- **MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES**
 - AAPM&R
 - AACPDM
 - AACPDM Adaptive Sports Committee (September, 2014 to September, 2019)
- **MAJOR RESEARCH INTERESTS**
 - Adaptive Sports and Recreation
 - Cerebral Palsy
- **GRANT HISTORY**
 - REI Stewardship Grant (2011)
 - Case Foundation Finding Fearless Changemaker Grant (2012)
 - Medical Director and Co-Investigator: New Jersey Commission on Brain Injury CBIR15PIL017 (PI: Karen Nolan), 5/29/15-5/28/17, Improving Mobility Utilizing Robotic Exoskeletons for Children with Traumatic Brain Injury (Quantifying the clinical, biomechanical and functional effectiveness of robotic exoskeleton early intervention gait therapy for adolescents during in-patient rehabilitation with acute TBI).
- **MAJOR TEACHING EXPERIENCE**
 - Lectures
 - UMDNJ-NJMS/Kessler Institute for Rehabilitation Resident Educational Series: Cervical Radiculopathies (June 6, 2001)
 - UMDNJ-NJMS/Children's Specialized Hospital Grand Rounds: Adaptive, Therapeutic Indoor Rock Climbing-The Peak Potential Program (October 5, 2001)
 - UMDNJ-NJMS/Kessler Institute for Rehabilitation Resident Education Series: Anatomy of the Shoulder (October 24, 2001)
 - UMDNJ-NJMS Grand Rounds: Rock Climbing and Bouldering Injuries (November 9, 2001)
 - Wilderness Medical Society Medical Student Interest Group-UMDNJ-Robert Wood Johnson Medical School: Rock Climbing and Bouldering Injuries (November 29, 2001)
 - Taiwan Buddhist Tzu-Chi Foundation International Medical Association-NJ Branch: An Introduction to Pediatric and Adult Physical Medicine and Rehabilitation (September 29, 2002)
 - NY Market Radio Broadcasters Association's Community Leaders Day, New York Marriott Marquis Hotel: Adaptive, Therapeutic, Indoor Rock Climbing – A Resource for the Community (October 30, 2002)
 - Taiwan Buddhist Tzu-Chi Foundation International Medical Association-NJ Branch: Sports and Recreation – Injury Prevention (June 8, 2003)
 - Princeton University Reunions, Princeton University, Princeton, New Jersey: Adaptive Wilderness Adventure (August 30, 2003)

- Children's Specialized Hospital, Mountainside, New Jersey: Pediatric Spinal Cord Dysfunction Update-The State of the Art (February 9, 2004)
- Kessler Institute for Rehabilitation, West Orange, New Jersey: Pediatric Spinal Cord Dysfunction-An Update (June 2, 2004)
- Adaptive, Therapeutic, Rock Climbing – Grand Rounds, Departments of Physical Medicine & Rehabilitation and Neurology, Long Island Jewish Medical Center (January 11, 2006)
- UMDNJ-NJMS/Kessler Institute for Rehabilitation Resident Education Series: Pediatric Adaptive Sports (February 15, 2006)
- UMDNJ-NJMS/Kessler Institute for Rehabilitation Resident Education Series: Rehabilitation of Pediatric Rheumatology (February 15, 2006)
- JFK-Johnson Rehabilitation Institute Resident Education Series: Cerebral Palsy (May 23, 2006)
- Children's Specialized Hospital, Hamilton, New Jersey, Lecture for therapists and staff physicians: Idiopathic Toe-Walking (June 19, 2006)
- Hunterdon Medical Center Pediatric Grand Rounds: Management of the Child with Cerebral Palsy (November 15, 2006)
- JFK-Johnson Rehabilitation Institute Resident Education Series: Cerebral Palsy (January 29, 2007)
- National Rehabilitation Hospital, Washington D.C. PM&R Grand Rounds: Adaptive Pediatric Outdoor Sports and Recreation (April 13, 2007)
- UMDNJ-NJMS Trauma Surgery Grand Rounds: Adaptive Pediatric Outdoor Sports and Recreation (May 24, 2007)
- UMDNJ-NJMS/Kessler Institute for Rehabilitation Resident Education Series: Pediatric Movement Disorders (May 30, 2007)
- UMDNJ-NJMS/Kessler Institute for Rehabilitation Resident Education Series: Adaptive Pediatric Outdoor Sports and Recreation (May 30, 2007)
- Children's Specialized Hospital Clinical Rounds: From Mountains to Oceans: Adventure Sports for Individuals with Disabilities (August 8, 2007)
- JFK-Johnson Rehabilitation Institute Resident Education Series: Cerebral Palsy (February 25, 2008)
- NJ District of Key Club International Mid-Winter Training Conference Keynote Speaker, Valley Forge, PA: A Life of Service (March 8, 2008)
- Kean University Occupational Therapy Program Lecture Series: Diagnosis and Management of the Child with Cerebral Palsy (June 3, 2008)
- Children's Specialized Hospital Clinical Rounds: Management of the Child with Cerebral Palsy (June 11, 2008)

- UMDNJ-NJMS PM&R Medical Student Lecture Series: Introduction to Pediatric Rehabilitation (multiple presentations 2003 to present)
- Mock Orals Examiner, KMRREC PM&R Review Course (April 30, 2008)
- Saint Joseph's Medical Center Pediatric Grand Rounds: Diagnosis and Management of the Child with Cerebral Palsy (December 23, 2008)
- Mount Sinai Medical Center Department of Physical Medicine and Rehabilitation Grand Rounds: From Mountains to Oceans: Adventure Sports for Individuals with Disabilities (December 30, 2008)
- Dominican College Physical Therapy Program Lecture Series: Diagnosis Management of the Child with Cerebral Palsy (March 7, 2009)
- Kean University Occupational Therapy Program Lecture Series: Diagnosis and Management of the Child with Cerebral Palsy, Introduction to Pediatric Rehabilitation (April 21, 2009)
- Mock Orals Examiner, KMRREC PM&R Review Course (April 27, 2009)
- UMDNJ-NJMS/Kessler Institute for Rehabilitation Resident Education Series: Toe Walking (May 27, 2009)
- Keynote Speaker, Kiwanis New Jersey District Convention, Princeton, New Jersey (August 22, 2009)
- Wilderness Medical Society Annual Conference, Snowmass, CO (faculty): Medical Aspects of Diving with a Disability (July 26-27, 2010)
- Children's Specialized Hospital Physical Therapy Department Lecture Series: Spasticity in the Child With Cerebral Palsy (September 30, 2010)
- Southwest Conference on Disability, Albuquerque, NM: Adaptive Adventure Sports: The Rock Climbing and SCUBA Diving Experience (October 7, 2010)
- Saint Barnabas Medical Center Pediatric Grand Rounds: Spasticity in the Child with Cerebral Palsy (November 2, 2010)
- SCUBA Sports Club, Westchester, New York: SCUBA Diving with a Disability (November 10, 2010)
- UMDNJ-NJMS/Kessler Institute for Rehabilitation Resident Education Series: Toe-Walking (December 29, 2010)
- Overlook Hospital Pediatric Grand Rounds: Spasticity in the Child with Cerebral Palsy (March 11, 2011)
- Morristown Memorial Hospital Pediatric Grand Rounds: Spasticity in the Child with Cerebral Palsy (March 17, 2011)
- Richmond University Medical Center, Staten Island, NY Pediatric Grand Rounds: Spasticity in the Child with Cerebral Palsy (October 28, 2011)
- Clara Maas Hospital (Belleville, NJ) Pediatric Grand Rounds: Spasticity in the Child with Cerebral Palsy (December 21, 2011)

- JFK-Johnson Rehabilitation Institute (Edison, NJ) Resident Education Series: Management of the Child with Cerebral Palsy/Management of Hypertonia (February 2, 2012)
- Kessler's 24th Annual PM&R Board Review Course (East Hanover, NJ): Cerebral Palsy: Classification, Diagnosis, Treatment & Rehabilitation (March 22, 2012)
- UMDNJ-New Jersey Medical School PM&R Student Interest Group: Adaptive Adventure Sports: The Rock Climbing and SCUBA Diving Experience (October 24, 2012)
- Kessler's 25th Annual PM&R Board Review Course (East Hanover, NJ): Cerebral Palsy: Classification, Diagnosis, Treatment & Rehabilitation (May 2, 2013)
- PG Chambers School Therapist Lecture Series: The Management of Spasticity in the Child with Cerebral Palsy (June 12, 2013)
- Kessler's 26th Annual PM&R Board Review Course (East Hanover, NJ): Cerebral Palsy: Classification, Diagnosis, Treatment & Rehabilitation (April 3, 2014)
- Children's Specialized Hospital Clinical Rounds: Cerebral Palsy: Classification, Diagnosis, Treatment & Rehabilitation (May 14, 2014)
- American Academy for Cerebral Palsy and Developmental Medicine Annual Meeting, San Diego, CA: Can You Have a Motor Disability and Be a Competitive Athlete? (Instructional Course, September 13, 2014)
- Friends of Children's Specialized Hospital: Adaptive Adventure Sports – The Rockclimbing and SCUBA Diving Experience. Mountainside, NJ (October 8, 2014)
- Kessler's 27th Annual PM&R Board Review Course (East Hanover, NJ): Cerebral Palsy: Classification, Diagnosis, Treatment & Rehabilitation (March 26, 2015)
- American Academy for Cerebral Palsy and Developmental Medicine Annual Meeting, Austin, TX: Rock Climbing: Adaptive Recreation, Competitive Sport, and Therapy Modality (Breakfast Seminar, October 23, 2015)
- Kessler's 28th Annual PM&R Board Review Course (East Hanover, NJ): Cerebral Palsy: Classification, Diagnosis, Treatment & Rehabilitation (April 7, 2016)
- Rutgers-NJ Medical School Resident Education Series: Management of the Child with Cerebral Palsy (September 7, 2016)
- St. Barnabas Medical Center, Pediatric Grand Rounds: Management of the Child with Cerebral Palsy (September 13, 2016)
- Friends of Children's Specialized Hospital: Adaptive Adventure Sports – The Rock Climbing and SCUBA Diving Experience – An Update. Mountainside, NJ (April 4, 2017)
- Kessler's 29th Annual PM&R Board Review Course (East Hanover, NJ): Cerebral Palsy: Classification, Diagnosis, Treatment & Rehabilitation (April 5, 2017)

- Kessler Foundation Post-Doc Didactic Series: The Diagnosis and Management of the Child with Cerebral Palsy: Current Strategies and Future Directions. West Orange, NJ (September 26, 2017)
- Rutgers-NJ Medical School Resident Education Series: Management of the Child with Cerebral Palsy (September 7, 2018)
- Kessler's 30th Annual PM&R Board Review Course (East Hanover, NJ): Cerebral Palsy: Classification, Diagnosis, Treatment & Rehabilitation (March 10, 2018)
- JFK-Johnson Rehabilitation Institute (Edison, NJ) Resident Education Series: Management of the Child with Cerebral Palsy/Management of Hypertonia (January 3, 2019).
- Kessler's 31th Annual PM&R Board Review Course (East Hanover, NJ): Cerebral Palsy: Classification, Diagnosis, Treatment & Rehabilitation (March 29, 2019)
- Kessler Foundation Post-Doc Didactic Series: The Diagnosis and Management of the Child with Cerebral Palsy: Current Strategies and Future Directions. West Orange, NJ (June 6, 2019)
- Rutgers-NJ Medical School Resident Education Series: Management of the Child with Cerebral Palsy (September 4, 2019)
- Children's Specialized Hospital Medical Seminar: It's Common Until It's Not, Mountainside, NJ (12/9/19)
- St. Barnabas Medical Center Department of Pediatrics Grand Rounds: Advances in the Treatment of Cerebral Palsy. Livingston, NJ (February 25, 2020)
- Kessler's 32th Annual PM&R Board Review Course (East Hanover, NJ): Cerebral Palsy: Classification, Diagnosis, Treatment & Rehabilitation (March 27, 2020)
- Kessler's 33th Annual PM&R Board Review Course (East Hanover, NJ): Cerebral Palsy: Classification, Diagnosis, Treatment & Rehabilitation (March 12, 2021)
- Rutgers-New Jersey Medical School Grand Rounds: The Evolution of Adaptive Rock Climbing-Therapy, Recreation and Competitive Sport (September 4, 2020)
- Kessler's 34th Annual PM&R Board Review Course (West Orange, NJ): Cerebral Palsy: Classification, Diagnosis, Treatment & Rehabilitation (March 10, 2022)
- Rutgers-NJ Medical School Resident Education Series: Diagnosis and Management of the Child with Cerebral Palsy (September 8, 2022)
- Adaptive Rock Climbing for Pediatric and Occupational Therapists (multiple presentations 2004 to present)
 - Docent, Joseph M. Long Marine Laboratory, Santa Cruz, CA (1993-1995)
 - Instructor, Project Climb, Santa Cruz CA (1993-1995): Rock climbing program for at-risk youth.
- **PRINCIPAL CLINICAL AND HOSPITAL SERVICE RESPONSIBILITIES**
 - Attending Physician, Children's Specialized Hospital, Mountainside, NJ

- Coordinate the care of outpatients / provide inpatient coverage during nights and weekends
- Pediatric Rehabilitation, Newark Beth Israel Hospital, Newark, NJ
- Pediatric Rehabilitation, First Cerebral Palsy of NJ School, Belleville, NJ
- Pediatric Rehabilitation, Pillar Care Continuum-Elementary and High Schools, Livingston, NJ
- Pediatric Rehabilitation, North Jersey Elks Developmental Disabilities Agency-Elementary School, Clifton, NJ
- Pediatric Rehabilitation, PG Chambers School, Cedar Knolls, NJ
- Pediatric Rehabilitation, First Children School, Fanwood, NJ
- **MAJOR ADMINISTRATIVE RESPONSIBILITIES**
 - President of Peak Potential, Inc. (non-profit organization that provides adaptive, therapeutic, rock climbing programs for children with disabilities) (2001 to 2006)
 - Section Chief of Physiatry, Children's Specialized Hospital, NJ (2014 to 2021)
- **PRIVATE PRACTICE**
 - Pediatric Rehabilitation Specialists LLC (November 15, 2021 to present)
- **PUBLICATIONS (PEER-REVIEWED JOURNALS)**
 - Tzeng AC, Cheng J, Fryczynski H, Niranjana V, Stitik T, Sial A, Takeuchi Y, Foye P, DePrince M, Bach JR. A study of thyrotropin-releasing hormone for the treatment of spinal muscular atrophy: a preliminary report. *Am J Phys Med Rehabil.* 2000 Sep-Oct;79(5):435-40. doi: 10.1097/00002060-200009000-00005. PMID: 10994885.
 - Cheng J, Diamond M. SCUBA diving for individuals with disabilities. *Am J Phys Med Rehabil.* 2005 May;84(5):369-75. doi: 10.1097/01.phm.0000159974.01251.e2. PMID: 15829784.
 - Castello F, Louis B, Cheng J, Armento M, Santos AM. The use of functional electrical stimulation cycles in children and adolescents with spinal cord dysfunction: a pilot study. *J Pediatr Rehabil Med.* 2012;5(4):261-73. doi: 10.3233/PRM-2012-00221. PMID: 23411767.
 - Karunakaran KK, Pilkar R, Ehrenberg N, Bentley KS, Cheng J, Nolan KJ. Kinematic and Functional Gait Changes After the Utilization of a Foot Drop Stimulator in Pediatrics. *Front Neurosci.* 2019 Jul 30;13:732. doi: 10.3389/fnins.2019.00732. PMID: 31417338; PMCID: PMC6682640.
 - Oliveira N, Ehrenberg N, Cheng J, Blochlinger S, Barrance P. Visual kinematic feedback enhances the execution of a novel knee flexion gait pattern in children and adolescents. *Gait Posture.* 2019 Oct;74:94-101. doi: 10.1016/j.gaitpost.2019.06.016. Epub 2019 Jul 5. PMID: 31494385.
 - Karunakaran KK, Ehrenberg N, Cheng J, Nolan KJ. Effects of Robotic Exoskeleton Gait Training on an Adolescent with Brain Injury. *Annu Int Conf IEEE Eng Med Biol Soc.* 2019 Jul;2019:4445-4448. doi: 10.1109/EMBC.2019.8856787. PMID: 31946852.
 - Karunakaran KK, Ehrenberg N, Cheng J, Bentley K, Nolan KJ. Kinetic Gait Changes after Robotic Exoskeleton Training in Adolescents and Young

Adults with Acquired Brain Injury. *Appl Bionics Biomech.* 2020 Oct 27;2020:8845772. doi: 10.1155/2020/8845772. PMID: 33193810; PMCID: PMC7641681.

- Gilbert C, Sauer M, Cheng J. Reduction of self-mutilating behavior and improved oromotor function in a patient with Lesch-Nyhan syndrome following botulinum toxin injection: A case report. *J Pediatr Rehabil Med.* 2021;14(1):133-136. doi: 10.3233/PRM-200729. PMID: 33720862.
- Liu X, Oliveira N, Ehrenberg N, Cheng J, Bentley K, Blochlinger S, Shoval H, Barrance P. Feasibility of a real-time pattern-based kinematic feedback system for gait retraining in pediatric cerebral palsy. *J Rehabil Assist Technol Eng.* 2021 Jun 2;8:20556683211014125. doi: 10.1177/20556683211014125. PMID: 34123407; PMCID: PMC8175836.
- Casseus M, Cheng J. Children with Cerebral Palsy and Unmet Need for Care Coordination. *J Dev Behav Pediatr.* 2021 Oct-Nov 01;42(8):605-612. doi: 10.1097/DBP.0000000000000950. PMID: 33990510.
- Casseus M, Cheng J, Cooney JM. Volunteering among youth with disabilities: a population-based study. *Disabil Rehabil.* 2022 Jan 22:1-7. doi: 10.1080/09638288.2022.2025925. Epub ahead of print. PMID: 35068262.
- Casseus M, Cheng J. Variations in Healthcare transition preparation among youth with chronic conditions. *Am J Prev Med.* 2022 May;62(5):e275-e283. doi: 10.1016/j.amepre.2021.10.010. Epub 2021 Dec 20. PMID: 34949508.
- **BOOKS, MONOGRAPHS, AND CHAPTERS**
 - Melanga J, Filart R, **Cheng J.** The disabled athlete. www.emedicine.com, 2002. (online book chapter)
- **ABSTRACTS**
 - Poster/Platform Presentations
 - **Cheng J**, Resurreccion D, Diamond M. Efficacy and safety of an indoor rock climbing program as a complimentary therapy and recreational activity for a child with diplegia secondary to thoracic-level syringomyelia. The Howard H. Steel Conference on Pediatric Spinal Cord Dysfunction, Orlando, Florida, December 6-9, 2003.
 - **Cheng J**, Resurreccion D, Tzeng B, Diamond M. Efficacy and safety of an indoor rock climbing program as a complimentary therapy and recreational activity for children with cerebral palsy. Association of Academic Physiatrists-Annual Conference, Albuquerque, NM, February 25-29, 2004.
 - Bentley K, **Cheng J.** A case of possible complex regional pain syndrome in a child following alcohol blocks to the motor branches of the medial hamstrings. Association of Academic Physiatrists-Annual Conference, Bonita Springs, FL, April 6-10, 2010.
 - Hampton, S, **Cheng J.** Use of commercial activity monitors for individuals with disabilities: A proof of concept study. Association of Academic Physiatrists-Annual Conference, Nashville, TN, February 25-31, 2014.

- Bolikal P, Bentley K, **Cheng J**, Botticello A, Cheng R: Feasibility of Peak Potential, an Adaptive Rock Climbing Program for Children with Cerebral Palsy and Physical Disabilities. 2016.
- Androwis G, Ehrenberg N, Karunakaran K, Bentley K, **Cheng J**, Nolan K. Alterations to EMG onset after utilization of foot drop stimulator. Northeast Bioengineering Conference, New Jersey Institute of Technology, Newark, NJ, March 31-April 2, 2017.
- Oliveira N, Ehrenberg N, **Cheng J**, Blochlinger S, Barrance P. Knee flexion modifications during pediatric gait using visual feedback. Annual Meeting of the American Society of Biomechanics, Boulder, CO, August 8-11, 2017.
- Androwis G, Ehrenberg N, Karunakaran K, Bentley K, **Cheng J**, Nolan K. Secondary benefits of a foot drop stimulator on spasticity and motor control for cerebral palsy. American Congress of Rehabilitation Medicine, Atlanta, GA, October 23-28, 2017.
- Karunakaran K, Ehrenberg N, **Cheng J**, Nolan K. Effects of robotic exoskeleton gait training on an adolescent with brain injury. Northeast Bioengineering Conference, Piscataway, NJ, March 20-22, 2019.
- Gilbert C, **Cheng J**, Marchetta C. Comparing quality of life in children with cerebral palsy versus children with cerebral palsy and autism spectrum disorder. American Academy for Cerebral Palsy and Developmental Medicine, Anaheim, CA, September 18-21, 2019.
- Bartolo K, **Cheng J**. Treadwall training for hemiparesis. Association of Academic Physiatrists, Orlando, FL, March 4-9. 2020.
- **CURRENT RESEARCH STUDIES**
 - FES Brace for Children with Hemiparesis
 - Robotic Exoskeleton for Gait Training in Brain Injury
 - Visual Biofeedback for Gait Training in Hemiplegic Cerebral Palsy
 - Use of Treadwall as an Occupational Therapy Modality for Children with Hemiparesis
 - Adaptive Rock Climbing for Children with Disabilities
 - Quality of Life in Children with Both Cerebral Palsy and Autism Spectrum Disorder
 - Motion Analysis Laboratory Use for the Treatment of Children with Cerebral Palsy
 - Use of Remote, Computer-Assisted, Exergame Technologies for the Treatment of Children with Cerebral Palsy
- **REVIEWS**
 - none
- **REPORTS**
 - none
- **PATENTS HELD**
 - US 2021/0022668 A1: Feedback Systems and Methods for Gait Training for Pediatric Subjects Affected with Gait Disorders (June 28, 2021)

Invited Speaker At National/International Meetings

- Wilderness Medical Society Annual Conference, Snowmass, CO (faculty): Medical Aspects of Diving with a Disability (July 26-27, 2010)
- Southwest Conference on Disability, Albuquerque, NM: Adaptive Adventure Sports: The Rock Climbing and SCUBA Diving Experience (October 7, 2010)
- American Academy for Cerebral Palsy and Developmental Medicine Annual Meeting, San Diego, CA: Can You Have a Motor Disability and Be a Competitive Athlete? (Instructional Course, September 13, 2014)
- American Academy for Cerebral Palsy and Developmental Medicine Annual Meeting, Austin, TX: Adaptive Recreational, Therapeutic, and Competitive Rock Climbing (Breakfast Session, October 24, 2015)
- American Academy of Physical Medicine and Rehabilitation National Assembly, Orlando, FL. Passion Purpose and Community-The Peak Potential Project (PhyzTalks Plenary Session Presentation, October 28, 2018)