

ANDREWS INSTITUTE

**CHILDREN'S HEALTH<sup>SM</sup> ANDREWS INSTITUTE  
FOR ORTHOPAEDICS & SPORTS MEDICINE  
CONCUSSION PROGRAM**

Postdoctoral Fellowship in Sports Neuropsychology



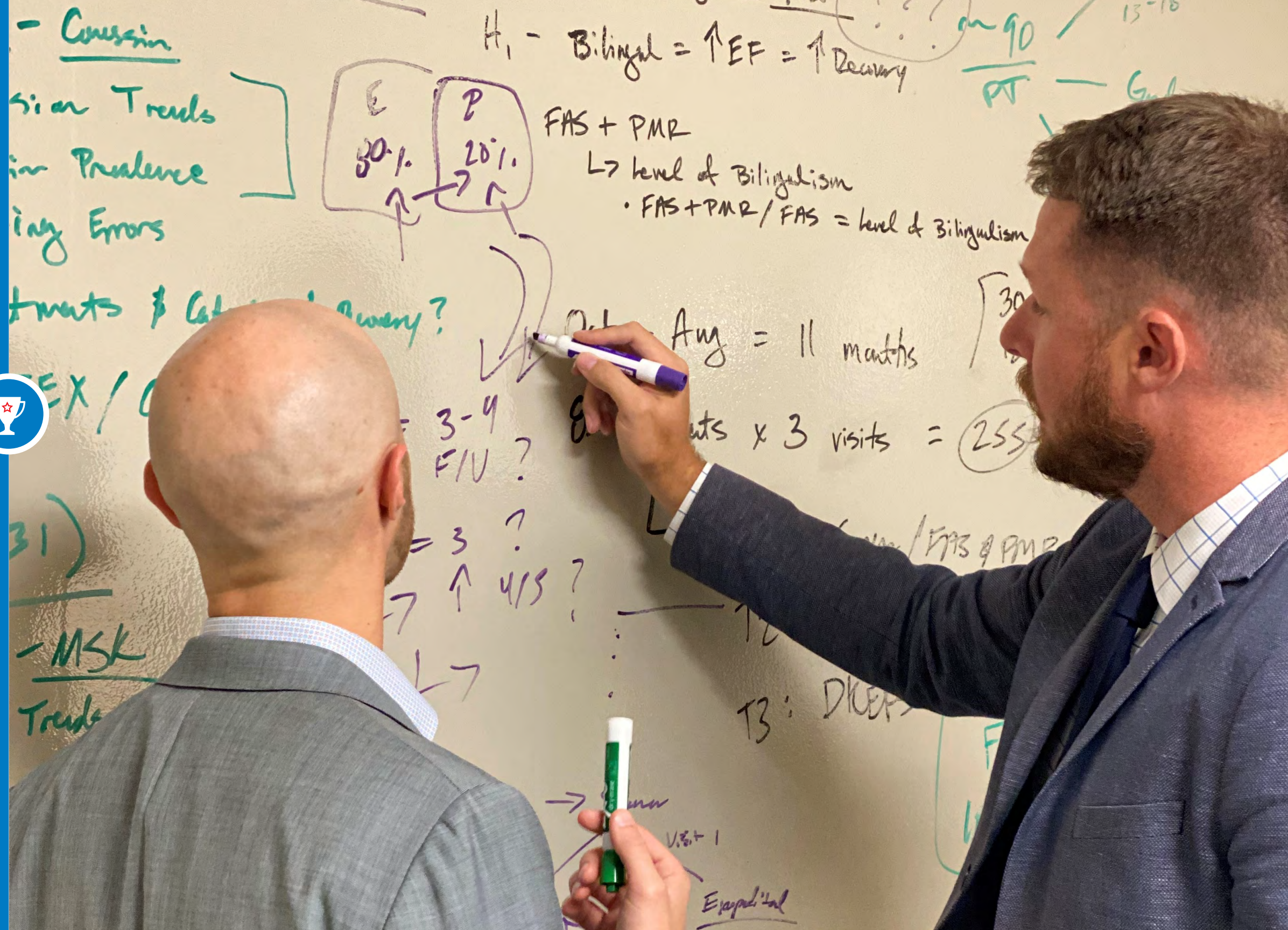
The Children's Health<sup>SM</sup> Andrews Institute Sports Neuropsychology Fellowship was established in 2020. This multidisciplinary team of experts utilizes state-of-the-art methods and a sport-specific approach to diagnose, treat, rehabilitate and return athletes to activity. Our clinical team includes neuropsychologists, primary care and orthopedic physicians, pediatric nurse practitioners, athletic trainers and physical therapists all working together to create the best possible outcomes for our patients.

THE PROGRAM RECEIVED THE 2018 INNOVATOR OF THE YEAR AWARD FROM THE PLANO CHAMBER OF COMMERCE FOR OUR DEMONSTRATION OF INNOVATION AND STRATEGIC THINKING IN THE PLANO COMMUNITY.

The Children's Health Andrews Institute Sports Concussion Program is involved in the evaluation and management of concussions for athletes at all levels of sports participation, including professional, collegiate, high school and youth athletes. The program received the 2018 Innovator of the Year award from the Plano Chamber of Commerce for our demonstration of innovation and strategic thinking in the Plano community.



Specialty care provided by UT Southwestern physicians



**Overview**

Fellows will have the opportunity to provide neuropsychological services in an acute concussion management setting with children, adolescents, and adults at Children's Health Andrews Institute. While the fellowship is located in a high volume pediatric facility, prior pediatric experience is not required.

The clinical fellowship model involves intensive sports concussion training at Children's Health Andrews Institute in Plano, TX. Fellows will be exposed to a variety of professionals within the sports medicine model, including orthopedic surgeons, physicians, nurse practitioners, physician assistants, physical therapists and athletic trainers.

**About the Fellowship**

The Children's Health Andrews Institute Sports Neuropsychology Fellowship is intended to serve as an individualized, programmed sequence of training with clearly identifiable goals, objectives, training plan and curriculum.

**Goals**

The fellowship consists of a multidisciplinary team with the goal to prepare trainees for independent practice in the field of sports neuropsychology. Upon completion of the fellowship, trainees will have acquired the necessary clinical and research skills.

### Objectives

The educational philosophy of the training program is to develop fellows who become evidence based practitioners. The fellowship emphasizes a patient-centric approach to concussion treatment and management, as well as providing individualized and specialized care to patients based on their current needs.

### Training Activities

Fellows will perform brief neuropsychological evaluations as well as extended neuropsychological evaluations when necessary. In addition to providing services to patients, fellows will also gain exposure to both sport and non-sport related injuries.

### Training Plan

Fellows will spend 80% of their time providing direct clinical patient care and 20% of their time fulfilling research and educational obligations. The training curriculum includes didactics, case conferences, research meetings, individual and group supervision, and the Sports Medicine Distinguished Lecture Series.

Upon satisfactory completion of the postdoctoral fellowship, trainees will meet practice requirements for licensure and certification in the state of Texas by the Texas State Board of Examiners of Psychologists, as well as all states across the country.

**FELLOWS WILL SPEND 80% OF THEIR TIME PROVIDING DIRECT CLINICAL PATIENT CARE AND 20% OF THEIR TIME FULFILLING RESEARCH AND EDUCATIONAL OBLIGATIONS.**



### Location

The Children's Health Andrews Institute Facility is in a state-of-the-art four-story building on the Plano campus of Children's Health in Plano, TX. This building is specifically designed for the education, assessment, diagnosis, treatment and rehabilitation of athletes of all ages. Design features include multi-use clinic space, a surgery center, advanced diagnostics, and a conference center. Additional features include physical/occupational therapy, sports performance and a biomechanics lab - all with the ability to utilize both indoor and outdoor turf areas, as well as an 80-meter track. The facility also includes a 60-yard turf field for performance and rehabilitation, an underwater treadmill and industry-leading strength and conditioning sports performance center powered by EXOS.

In addition to the main facility in Plano, TX, Children's Health Andrews Institute has grown and opened additional facilities in the DFW metroplex. In partnership with a local school district and UT Southwestern Medical Center, Children's Health Andrews Institute opened a new location in Frisco, TX in the summer of 2022. An additional location was opened in February 2023 in Prosper, TX. The services offered at both locations are an extension of those at the main facility and include sports medicine, orthopaedics, and comprehensive concussion care.

**ANDREWS INSTITUTE FACILITY IS IN A STATE-OF-THE-ART FOUR-STORY BUILDING ON THE PLANO CAMPUS OF CHILDREN'S HEALTH IN PLANO, TX.**

### Fellow Expectations

Fellow duties will include detailed clinical interviews of concussion patients from varied backgrounds and mechanisms of injury with specific attention to biopsychosocial factors that may contribute to injury risk and recovery. Fellows will administer and interpret computerized/electronic and traditional paper/pencil neuropsychological assessment measures and neurologically based vestibular and ocular-motor screening assessment measures. Fellows will provide individualized feedback to patients, including clinical management of symptoms, return to school/play recommendations, and therapeutic exercise programs for vestibular and ocular motor dysfunction.

Fellows will have the opportunity to participate in outreach efforts including: educational presentations, athlete pre-season baseline testing, and high school and collegiate sideline game coverage.

Fellows will also have contact with a variety of professionals, including neuropsychologists, psychiatrists, neurologists, epileptologists, neurosurgeons, neuroradiologists and other medical specialties, in addition to trainees in psychiatry and neurology, doctoral- and master's-level graduate students, and other neuropsychology residents.

The first year of training will primarily occur at the Children's Health Andrews Institute in Plano, TX. During their second year, fellows will have the opportunity to rotate to other Children's Health Andrews Institute clinics throughout the DFW metroplex.



### Clinical Training Model

The clinical training model follows an evidence-based approach consistent with the traditional medical training model. Fellows will be provided education, observation and experiential learning opportunities across various neurological populations, with particular emphasis in concussion. Fellows will be encouraged to take a rehabilitation-focused approach to clinical care of concussion by identifying specific injury factors contributing to clinical dysfunction and developing individualized treatment interventions specific to each patient.



### Technology and Innovation

Children's Health Andrews Institute is leading the way in specialty driven telemedicine. Our Concussion and Behavioral Health platforms are some of the first to allow health care professionals to evaluate, diagnose and treat patients in remote locations using HIPAA- and FERPA-compliant telecommunications technology. Our telemedicine platform allows patients to access medical expertise quickly, efficiently and without travel.



### Business Development

As a unique addition to the fellowship, the opportunity to perfect important practice development proficiencies (e.g. coding, billing, legal liability, etc.) will be provided. Fellows will focus on building an outreach network and referral base, protocol development, and learning effective marketing techniques so they are fully equipped to lead their own practice upon fellowship completion.



### Evaluation of Fellows

Fellows receive formal evaluations from supervisors quarterly. In addition, fellows will be provided with a specific plan to address areas in need of additional growth and attention. Formal due process procedures regarding problem situations are in place for both the fellow and fellowship faculty. Evaluations will be performed by Sarah Boucher, Psy.D.



### Fellowship Supervisors

Dr. Boucher is the acting clinical fellowship supervisor and has a team of additional fellowship faculty. Dr. Boucher and additional fellowship faculty are licensed in the state of Texas through the Texas State Board of Examiners of Psychologists and are in good standing. All fellowship faculty are significantly involved in the training program with respect to supervision, fellow evaluations, program evaluations, educational curriculum, research, clinical over-site and professional development.

### Learning Experiences

Fellows are provided with 20% protected time for research and didactics that may include:

#### Sports Medicine Distinguished Lecture Series

The Distinguished Lecture Series is a quarterly meeting among sports medicine professionals from varied backgrounds. The format consists of journal reviews, clinical case studies, original research presentations, original research proposals and other varied topics.

#### Neuropsychology Didactics and Case Conferences

A variety of topics related to clinical care, professional development, as well as case presentations with round table case conceptualization discussion, will take place monthly. These monthly meetings will be moderated by various fellowship faculty, as well as local and nationally recognized speakers in the area of pediatric sports concussion.

#### Research Meetings

John Abt, Ph.D., will direct monthly research didactics for all fellows, which will cover topics, including research ethics, IRB training, statistics, research design, journal article writing, grant writing, presentation development and regular examination of current trends in concussion-related research. Fellows are expected to share research ideas and current projects. Fellows will receive feedback from both peers and research supervisors on proposals and submissions.



AS FELLOWS PROGRESS THROUGH THEIR TRAINING EXPERIENCE, **GROUP SUPERVISION WILL BE PROVIDED BY DR. BOUCHER AND FACULTY.**

### Seminar

Participation in educational seminars will occur through the development and delivery of presentations to fellowship faculty and other Children's Health Andrews Institute personnel. Topics will cover a variety of relevant subjects and include an assortment of presentation modalities such as journal articles, case presentations, research proposals, and research submission ideas.

### Individual/Group Supervision

Fellows will be provided weekly individual and group supervision throughout the duration of their training. Group and individual supervision will be provided by Dr. Boucher. There will be two hours of individual face-to-face supervision and one hour of group face-to-face supervision per week.

Supervision opportunities will allow for informal discussion of a variety of topics related to sports neuropsychology, neurodevelopment, ethics and professional practice.

### Literature Discussions

Fellowship training will include discussion of research articles and topics related to the clinical care and emerging clinical trends in sport concussion research, as well as discussing articles and books relevant to professional development.

### CITI IRB/COI Training

All fellows will complete CITI human subjects IRB and COI training prior to research involvement.





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**Concussion Research and Projects**

Fellows will be expected to be actively involved in ongoing research projects and to develop independent studies. Fellows will have access to a clinical concussion database of over 3,000 patients.

Selected current projects include:

- Establishing reliability and normative reference values for a concussion recovery screening measure in pediatric concussion patients
- Validation of ImpACT testing via telemedicine
- Behavioral health factors associated with concussion recovery
- Acute presentation and recovery patterns of cheerleading concussions
- Diagnostic and recovery capabilities of microRNA markers for concussion in saliva
- Implications of screen time and physical activity as prognostic indicators for recovery
- Validity and reliability of virtual reality based ocular-motor and vestibular assessment
- Post-concussion musculoskeletal injury risk
- Barriers for patient access to specialized clinical concussion care

Fellows will be provided a personal computer working space within the clinic and SPSS access.

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**THE CONCUSSION PROGRAM HAS RECEIVED SEVERAL RESEARCH AWARDS FOR THEIR CONTRIBUTION TO CONCUSSION RESEARCH, WITH THE MOST RECENT INCLUDING: TOP 10 POSTER AT THE PEDIATRIC RESEARCH IN SPORTS MEDICINE 2023 CONFERENCE, AND 2023 APP EXCELLENCE AWARD FOR RESEARCH AND INNOVATION.**  
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**Children's Health Andrews Institute  
 Concussion Program Faculty**

**Scott Burkhart, Psy.D.**  
 Neuropsychology Fellowship Founder and Advisor

**Sarah Boucher, Psy.D.**  
 Concussion Fellowship Training Director

**Christine Ellis, PNP**  
 Concussion Clinical Coordinator

**Carrie Jones, MAEd, ATC**  
 Concussion Clinical Athletic Trainer

**Kimberly Williams, LCSW**  
 Behavioral Health Care Manager

**John Abt, Ph.D.**  
 Research Director

**Troy Smurawa, M.D.**  
 Director of Pediatric Sports Medicine

**Dustin Loveland, M.D.**  
 Surgical Director, Chief Pediatric Orthopedics

**Salary and Benefits**

Salary is approximately \$60,000 in year one and \$65,000 in year two. Fellows receive full healthcare coverage, retirement benefits with cost sharing, and generous vacation accrual as well as an educational fund that may be used for conference travel expenses and psychology licensure expenses.

**Application Process**

Qualified applicants for the 2-year sports neuropsychology fellowship will have completed a doctoral degree in an APA/CPA-accredited doctoral program and an APA/CPA-accredited pre-doctoral internship. Successful completion of all degree requirements prior to the start of fellowship are required.

Applicants are asked to submit the following materials:

1. Cover letter detailing interest in the fellowship
2. Updated Curriculum Vitae
3. Three letters of recommendation sent directly from writer

All materials should be submitted by **November 17th by 11:59 PM CST:**

Sarah Brackens, ATC, LAT  
 Fellowship Program Coordinator  
 Sarah.Brackens@childrens.com

### Life in the Dallas-Fort Worth Metroplex

Enjoy a thriving blend of culture and commerce in the Dallas-Fort Worth area. The Dallas-Fort Worth Metroplex, commonly referred to as DFW or North Texas, encompasses 13 counties and is home to over 7 million people. The DFW area spans more than 9,200 square miles of total area, making it the largest inland metropolitan area in the U.S.

The DFW area offers everything from smaller communities full of charm and hidden treasures, to big city areas loaded with excitement and trendy destinations. In DFW you will uncover unique finds and fantastic sites at every turn.

Enjoy the many world-class museums, shopping venues, sporting events, live entertainment, amusement parks and a rich, celebrated history.

The DFW metroplex economy is primarily based on banking, commerce, insurance, telecommunications, technology, energy, healthcare, medical research, transportation and logistics. DFW is home to 24 Fortune 500 companies, the third-largest concentration of Fortune 500 companies in the U.S. behind New York and Chicago. Dallas is the fourth-largest city in the U.S., surpassing Houston in 2016. If the DFW metroplex were a sovereign state, it would have the 20th largest economy in the world.

DFW has a humid subtropical climate. It is continental and characterized by a wide range of temperatures for the latitude. The DFW metroplex features hot, humid summers and mild to cool winters.

For more information: [www.destinationdfw.com](http://www.destinationdfw.com)



DALLAS IS THE FOURTH-LARGEST CITY IN THE U.S., SURPASSING HOUSTON IN 2016. IF THE DFW METROPLEX WERE A SOVEREIGN STATE, IT WOULD HAVE THE 20TH LARGEST ECONOMY IN THE WORLD.



## Children's Health Andrews Institute Faculty

### Scott Burkhart, Psy.D. | Neuropsychology Fellowship Founder and Fellowship Advisor

Dr. Burkhart is a fellowship-trained neuropsychologist with subspecialty training in sport concussion treatment and management. Dr. Burkhart earned his doctoral degree from George Fox University Graduate Department of Clinical Psychology in Newberg, Oregon. He completed an internship residency in clinical assessment and neuropsychology at Tewksbury Hospital in Tewksbury, Massachusetts. He then completed a fellowship in sports concussion at the University of Pittsburgh Medical Center Sports Concussion Program in Pittsburgh, Pennsylvania, and received additional training in pediatric sports concussion and sports concussion in children with developmental and cognitive diagnoses. Dr. Burkhart is one of the few pediatric sports concussion neuropsychologists specializing in pediatrics and sports concussion in pediatric patients with developmental and cognitive diagnoses.

Dr. Burkhart has published multiple research articles related to sports concussion treatment and management in pediatrics, athletes with ADHD and learning disabilities, and motocross. Dr. Burkhart's current research interests include sideline diagnosis of sports concussion, utilizing various measures to predict recovery from sports concussion, the benefits of early physical exercise on recovery from sports concussion, and improving the treatment and management of sports concussion in pediatric athletes with developmental and cognitive diagnoses. Dr. Burkhart provides consultation and oversight related to sports concussion for multiple collegiate universities. He currently provides treatment and management of sports concussion injuries for many of the elite and professional athletes across the country.

### Sarah Boucher, Psy.D. | Concussion Fellowship Training Director | Clinical Neuropsychologist

Dr. Boucher is a clinical neuropsychologist who completed a sport neuropsychology fellowship at Children's Health Andrews Institute Sports in collaboration with UT Southwestern. Dr. Boucher received her doctorate degree in Clinical Psychology from Antioch University New England in Keene, NH. She completed an APA-accredited neuropsychology internship at the Edith Nourse Rogers Memorial Veterans Hospital in Bedford, Massachusetts. Having undergone comprehensive training, Dr. Boucher is skilled in neuropsychological assessment across the lifespan, with experience assessing developmental, neurological, psychiatric, and complex medical conditions. She passionately strives to help patients and their families through the concussion recovery process to return them back to the sports and activities they love as safely and quickly as possible.

As a former cheerleader and cheerleading coach, her passion for the sport has served as a driving force in her research efforts with the goal of improving treatment and management of concussion in cheer athletes. Her research interests include management and recovery of concussion with a specific focus on evaluating unique factors in cheerleading that may impact concussion recovery.

### Christine Ellis, APRN, CPNP-PC | Clinic Coordinator

Christine received her Bachelor of Science in Nursing from the University of Arkansas in May 2010. Upon graduating, she was accepted into the Graduate Nurse Residency Program at Children's Medical Center in Dallas, Texas. She was selected to work on an inpatient General Pediatrics Unit seeing a wide range of acute pediatric diagnoses. She later went on to spend several years in the Pediatric Intensive Care Unit as a bedside nurse caring for some of the sickest patients. Her nursing experience also includes time spent as a school nurse in Little Rock, Arkansas, and the suburban Dallas area. In May 2016, she graduated with her Master of Science in Nursing from Texas Woman's University. She received her certification as a pediatric nurse practitioner from the Pediatric Nursing Certification Board. After completing her graduate program, she started working at Children's Health Andrews Institute in Plano, Texas. She has now been at the Children's Health Andrews Institute over six years and sees exclusively concussion patients as part of a multidisciplinary team. Christine is honored to work in a successful, growing practice and is delighted to be serving the community in which she grew up.

### Kimberly Williams, LCSW | Behavioral Health Care Manager

Kimberly Williams is a licensed clinical social worker in Texas who combines her athletic experience with her clinical skills to help athletes of all ages. Kimberly earned her master's degree from Baylor University with a concentration in physical and mental health. During her time there, she interned at the Baylor Counseling Center with a focus on students/athletes with eating disorders. From 2010 to 2012, she was the Baylor Athletics Recovery Specialist, where she focused on total body wellness, including performance nutrition education and prepared supplemental nutrition sessions, and she also provided recovery therapies. Her primary focus was with the football team. Kimberly has been at Children's Health since 2017 working with the Integrated Behavioral Health team in multiple primary care pediatric clinics, as well as the ED.

### John Abt, Ph.D. | Director of Research

Dr. Abt is the Director of Research for Children's Health Andrews Institute and its orthopedic and sports medicine research program. The research program was created to support the overall mission of Children's Health "to make life better for children." The orthopedic and sports medicine research program focuses on musculoskeletal injury and concussion in the interconnected domains of injury prevention, treatment/rehabilitation and performance optimization. Over the last 20 years, Dr. Abt has served as a co-investigator or principal investigator on \$50M in extramural federal funding, and he has published in high-impact journals that are very prominent in the sports medicine field. Dr. Abt previously served as the Director of the Sports Medicine Research Institute at the University of Kentucky and Associate Director of the Neuromuscular Research Laboratory at the University of Pittsburgh. He received his Ph.D. in Rehabilitation Science from the University of Pittsburgh in 2004 and is a Fellow of the American College of Sports Medicine.

### Troy Smurawa, M.D. | Director of Pediatric Sports Medicine

Dr. Smurawa knew he wanted to be a doctor from a young age, and he found his way to sports medicine as an athlete himself. He was a three-sport athlete in high school and in college, and in medical school he developed a passion for competitive running and triathlons. Board-certified in both pediatrics and sports medicine, Dr. Smurawa earned his medical degree from The University of Texas Health Science Center and completed his residency in pediatrics at the University of Wisconsin. He completed a sports medicine fellowship at Children's Hospital Medical Center in Akron, Ohio.

Dr. Smurawa knows very well what it is like to be on the field of play, both as a coach and an athlete. He is certified by USA Triathlon and USA Cycling as a multisport coach and has served as a team doctor for the USA Triathlon World Championships teams for the past 20 years. He has competed in more than 30 marathons, six Ironman Triathlons and countless other races. With an extremely active family, Dr. Smurawa, his wife and three daughters enjoy playing sports and being outdoors, hiking, running and cycling. They also spend time giving back to the community and take regular mission trips together.

### Dustin Loveland, M.D. | Surgical Director | Chief Pediatric Orthopedics

Dr. Loveland is a board-certified orthopedic surgeon, fellowship-trained in sports medicine. He specializes in the treatment of fractures and sports injuries among children and young adults. Dr. Loveland earned his medical degree from the University of Texas Medical Branch. He completed his orthopedic surgical residency at the University of Miami, where he served as chief resident. He was then selected by Dr. James Andrews to train as a sports medicine fellow. Dr. Loveland has served as the associated team physician for the University of Miami and Auburn University football teams. Dr. Loveland treats sports-injured youth but also works with coaches, athletic trainers and parents to help prevent sports-related injuries.

Dr. Loveland is a native of Dallas and was raised as a youth athlete. He is actively involved in research. He has published numerous articles and book chapters related to sports medicine.

## Former Fellows

### Todd Caze II, Ph.D.

Completed his fellowship in 2021 and was the first to complete the Children's Health Andrews Institute Sports Neuropsychology Fellowship in collaboration with UT Southwestern. During his fellowship, Dr. Caze published multiple articles on behavioral health and emotional factors related to concussion. He started his own practice, The Caze Concussion Institute, in Omaha, Nebraska in the Spring of 2022. Dr. Caze cares for patients across the lifespan, primarily focusing on acute concussion treatment and management in the pediatric and adult populations. He is passionate about improving access to care for the undeserved populations and is an advocate for health equity.

### August Price, Psy.D.

Completed his fellowship in 2022. He published on topics including neurorehabilitation, prognostic indicators, and recovery trajectories in sports-related concussion. In the Fall of 2022, Dr. Price joined Dr. Joseph Bellapianta, a former orthopaedics and sports medicine fellow of world-renowned surgeon, Dr. James Andrews. Dr. Price established the concussion program at Bellapianta Orthopaedics and Sports Medicine in New Jersey, serving the greater tri-state area. His clinical interests include managing acute and chronic sports-related concussion patients across the lifespan. Dr. Price also consults with collegiate athletes in preparation for the transition to professional sports.

## Current Fellows

### Abel Mathew, Ph.D.

Dr. Mathew is a second-year Sports Neuropsychology Fellow at the Children's Health Andrews Institute. After graduating from Texas A&M University, he completed his PhD in Clinical Psychology at the University of Wisconsin-Milwaukee, and residency in Neuropsychology at the Alpert Medical School of Brown University. Research interests include identifying factors that affect rehabilitation and recovery time in those with mTBI/concussion.

### Daniel Choi, Psy.D.

Dr. Choi is a first-year Sports Neuropsychology Fellow at the Children's Health Andrews Institute. He completed his PsyD in Clinical Psychology with specialization in Neuropsychology at Widener University. His internship rotations were through Widener University at Princeton Neuropsychology at RSM | Sports Concussion Center of New Jersey with Dr. Rosemarie S. Moser and at the Perelman Center for Advanced Medicine of Penn Medicine. His research interests include roles of preinjury risk factors and mechanism of injury on concussion recovery and rehabilitation.





To learn more **call 469-303-3000**  
or **email [sarah.boucher@childrens.com](mailto:sarah.boucher@childrens.com)**