Postdoctoral Residency in Pediatric Neuropsychology

The postdoctoral residency (fellowship) in pediatric neuropsychology at IU School of Medicine and Riley Hospital for Children at IU Health is designed to meet the training guidelines set by the Houston Conference for postdoctoral specialization in pediatric neuropsychology.

The neuropsychology service at IU School of Medicine is located at the IU Health Neuroscience Center (Goodman Hall). The service is comprised of pediatric and adult providers, appointed across the Departments of Neurology and Psychiatry, functioning collectively within the discipline of neuropsychology. The residency was founded in 1997 and is a longstanding member of the Association of Postdoctoral Programs in Clinical Neuropsychology (APPCN). The residency houses pediatric and adult tracks, with residents sharing workspace areas, attending lifespan neuropsychology didactics together, and jointly participating in the program’s professional development series.

Within the pediatric track, residents gain expertise in developmental brain-behavior relationships and strengthen essential skills working with medically complex children. This is accomplished through diverse clinical activities, pediatric-focused didactics, and research involvement in the Neuroscience Center and Riley Hospital for Children at IU Health. As the only pediatric academic medical facility in Indiana, we provide an essential service to some of the most medically complicated children in the state. Graduating residents are well prepared for independent practice in pediatric neuropsychology. They are also ready to pursue ABPP board certification in clinical neuropsychology, as well as sub-specialization in pediatric neuropsychology.
Program Structure

Approximately 60% of the resident’s time is spent in clinical activities, 30% in didactics and supervision, and 10% in research. The program is designed to provide residents with exposure to a wide range of medical conditions, neurocognitive and neurodevelopmental disorders, and comorbid psychiatric issues. A strong emphasis is placed on multidisciplinary collaboration and participation in medical teams. Over the course of the 2-year program, residents gain increased independence in clinical, research, and professional activities.

Year 1

Outpatient Evaluations: The resident performs 3 outpatient evaluations per week from the general referral stream, with psychometrist testing coverage on 2 cases.

Neuro-Oncology Rotation: The resident is the neuropsychology liaison in monthly multidisciplinary tumor board and Neuro-Oncology clinic.

RASopathy Clinic: The resident is the neuropsychology liaison to the multidisciplinary RASopathy clinic.

Inpatient Rehabilitation: The resident follows 1-2 inpatient rehabilitation cases per month, in preparation for taking a leadership role in the second year of residency.

Year 2

Outpatient Evaluations: The resident performs 2 outpatient evaluations per week from the general referral stream, with psychometrist testing coverage on most cases, depending on inpatient rehab testing demand.

Inpatient Rehabilitation Rotation: The resident follows 4-5 inpatient rehabilitation cases per month and assumes a leadership role in coordinating neuropsychology services on the unit.

TBI Clinic: The resident is the neuropsychology liaison to multidisciplinary TBI clinic.
Clinical Training Experiences

Outpatient Evaluations
In order to be referred for a pediatric neuropsychological evaluation, patients must have a medical condition that impacts the CNS. Common medical conditions seen by our service include epilepsy, brain tumor, stroke, leukemia and other cancers, traumatic brain injury, spina bifida, cerebral palsy, genetic disorders, sickle cell disease, cardiac disease, and neurofibromatosis. Outpatient evaluations are performed in a “same-day” model, with diagnostic intake, testing, supervision, and feedback all occurring in the same day-long appointment. In addition to full day evaluations, residents conduct specialty abbreviated evaluations with preschool-age and concussion patients. The pediatric service has 3 full-time psychometrists, who provide testing support to faculty and trainees.

Medical Clinic Consultation
Residents rotate in several multidisciplinary outpatient medical clinics, serving as the primary neuropsychology liaison to the team. In RASopathy Clinic, residents consult with patients with germline mutations that result in neurocutaneous disorders such as NF-1 and Tuberous Sclerosis, as well as other conditions such as Noonan syndrome. In Neuro-Oncology Clinic, residents consult on children with complex psychosocial and educational needs in the context of complicated brain tumor outcomes. In TBI Clinic, residents provide post-acute education, brief assessment, and targeted intervention for children/teenagers who have sustained a mild traumatic brain injury (concussion). They also provide follow-up consultation for moderate to severe TBI patients who completed an admission to the inpatient rehabilitation unit. As Riley Hospital for Children at IU Health continues to grow, our neuropsychology service to the hospital is expanding. Opportunities exist for the motivated resident to take initiative in developing programming in medical clinics of interest, as time and schedule permit.
**Epilepsy Surgery Program**
Riley Hospital for Children houses the only Level 4 epilepsy program in the state. Residents participate in the multidisciplinary epilepsy surgery program throughout residency, attending two monthly conferences as their schedules permit. Residents conduct pre- and post-surgical neuropsychological evaluations and present in epilepsy surgery conference. Over the course of training, residents have the opportunity to follow two patients through the epilepsy surgery program, conducting pre-surgical neuropsychological evaluation, observing fMRI, presenting in epilepsy surgery conference, observing the neurosurgical procedure, and re-evaluating the patient at one year post-surgery.

**Inpatient Rehabilitation Unit**
Residents work with a multidisciplinary team to provide care for patients with a variety of traumatic and acquired brain injuries, including traumatic brain injury, brain tumors, CNS infections, and cerebrovascular accidents. Residents provide psychoeducation to caregivers and the rehabilitation team. They work with the rehabilitation team to monitor cognitive recovery and provide recommendations for behavioral health management. They also provide bedside evaluation prior to discharge and coordinate with the team to advise on return to home and learning environments. Residents have the opportunity to follow up with patients and families in the TBI clinic (described above) as well as during outpatient neuropsychological re-evaluation.
Professional Development

Over the course of training, the resident is expected to develop an area of special interest and expertise. Faculty will mentor residents to help them curate their training goals, research activities, didactic exposure, and clinical opportunities to develop this area of focus. Second-year residents develop a job talk and practice mock interviews with faculty in preparation for their job search.

Residents across pediatric and adult tracks participate in the program’s Professional Development Series. This series includes monthly didactics on professional development topics. The series also includes formal supervision readings, and group supervision for second-year residents who are actively engaging in vertical supervision of interns and practicum students.

Sample Professional Development Series Topics
Making the Most of Residency
Job Search, Interview, Negotiation
Medicolegal Work
Hot Topics & New Directions
Ethics I & II

Board Certification
Promotion & Networking
Private Practice
Supervision I, II, III
Seminars & Didactics

Neuropsychology Didactics
These required didactics are organized within the neuropsychology section and are designed to cover major adult and pediatric neurobehavioral conditions, relevant clinical issues, clinical neurology/psychiatry, and functional neuroanatomy. The goal of neuropsychology didactics is to prepare residents for independent practice and ABPP board certification in clinical neuropsychology.

Pediatric Neuropsychology Seminar
Residents on the pediatric track participate in specialty didactics that cover medical conditions, clinical syndromes, and issues/topics that are unique to pediatric populations. This seminar also includes a case conference component, with faculty and trainees presenting unusual or complex cases.

Neuropsychology Seminar
Residents on the pediatric and adult track participate in lifespan neuropsychology seminar, which consists of lectures and guided readings on topics that cover major neurobehavioral conditions in adults and children, broad clinical issues in neuropsychology, and lifespan clinical neurology/psychiatry. As part of this seminar, residents complete a Functional Neuroanatomy and Neurobehavioral Syndromes short course, offered by the neuropsychology faculty. Residents also practice fact finding in the style of ABPP board certification.

IU School of Medicine & IU Neuroscience Center Didactics
These didactics are organized by the School of Medicine and IU Neuroscience Center and cover a variety of medical conditions, clinical issues, and new developments in the fields of neurology, psychiatry, and neuroscience. Many of
these didactic experiences are optional, but can enhance clinical competence and promote a well-rounded understanding of how neuropsychology functions within a broader medical context.

Pediatric Grand Rounds
Neurology Grand Rounds
Child Neurology Grand Rounds
Neurology Resident Didactics
Psychiatry Grand Rounds
Pediatric Neuroradiology Conference
Stark Neurosciences Research Institute Seminar
Brain Cuttings
Medical Neuroscience Wet Labs

Research

Residents are required to produce one tangible research project with first authorship, or achieve equivalent academic contribution (i.e., co-authoring a book chapter, presenting at a conference). Residents may contribute to ongoing faculty-led studies or may pursue an original research/academic project.

Hydroxyurea & SCD – investigates the association between oral hydroxyurea and neuropsychological performance in children with Sickle Cell Disease.

Pelizaeus-Merzbacher Disease – examines functional status of children with this rare genetic condition through review of school records.

Educational Liaison in Concussion – investigates clinical utility and recovery outcomes for involving a dedicated educational liaison in a multidisciplinary concussion clinic.

Archival Clinic Dataset – dataset of neuropsychological test performance for over 400 pediatric patients.

Archival Neuropsychological and Structural and Functional MRI Datasets – datasets of children and adolescents with temporal onset epilepsy, who experienced mild traumatic brain injury, and who were treated with chemotherapy for leukemia, as well as healthy controls, who participated in studies including neuropsychological assessment and structural and functional MRI of working and episodic memory.
Diversity & Inclusion

The goal of the pediatric neuropsychology residency is that all residents feel included and that diversity is valued. The recently created Diversity Committee in clinical neuropsychology focuses on improving representational diversity, creating and maintaining an inclusive environment, and providing continued training in culturally competent care. Along with didactic opportunities available through IU and IUSM, cultural competence training in our program includes a monthly book/journal club to discuss readings relevant to the practice of culturally competent lifespan neuropsychology. In addition, if a resident has clinical or research interest in a particular population, there are opportunities to shape the resident’s clinical work, didactic involvement, and research to focus on that population.

The residency also adheres to the nondiscrimination policies of Indiana University and does not engage in discrimination based on characteristics such as age, color, disability, ethnicity, gender, marital status, national origin, race, religion, sexual orientation or veteran status. All of our training facilities are fully ADA compliant in terms of accessibility. If a resident is in need of additional resources to succeed, the program will work with that person on accessing additional available resources.
Supervision

Liz Begyn, PhD, HSPP, ABPP is a Clinical Assistant Professor of Neurology. She completed her doctorate at the University of North Texas and her residency in pediatric neuropsychology at Children’s Medical Center Dallas. She is board certified in Clinical Neuropsychology, with subspecialty certification in Pediatric Neuropsychology. Dr. Begyn is the Clinic Director for the Pediatric Neuropsychology service and is the supervising neuropsychologist in the RASopathy Clinic. Dr. Begyn has particular clinical interests in working with people with visual impairment/blindness. Dr. Begyn supervises practicum students, interns, and residents. Outside the hospital, Dr. Begyn is busy raising two kids and a German Shepard with her husband. She is a Disney fanatic, enjoys going to concerts and movies, and loves to travel (with and without the kids!)

Jana Chan, PhD, HSPP is a Clinical Assistant Professor of Neurology. She completed her doctorate at Ohio University, and her internship and residency in pediatric neuropsychology at Nationwide Children’s Hospital. Dr. Chan has particular interest in working with children and families across the range of traumatic brain injury. She is the attending neuropsychologist on the Inpatient Rehabilitation Unit at Riley Hospital for Children and the supervising neuropsychologist for the TBI Rotation. Dr. Chan supervises practicum students, interns, and residents. Outside the hospital, Dr. Chan is a Hoosier native and lives with her husband in downtown Indianapolis. They enjoy traveling, biking the Monon Trail, kayaking Indiana’s rivers and lakes, and exploring new restaurants and breweries.

Rachel Jensen, PsyD, HSPP is a Clinical Assistant Professor of Neurology. She completed her doctorate at Wheaton College (Wheaton, Illinois) and her clinical psychology internship and neuropsychology residency at Pine Rest Christian Mental Health Services (Grand Rapids, Michigan). Dr. Jensen has a particular interest in working with children and adolescents with intellectual disability, as well as in helping patients and families transition to adulthood. Dr. Jensen is the Director of Pediatric Training in Neuropsychology, and she supervises both interns and post-doctoral residents. She is a member of the Executive Council for the internship program, as well as a member of the Women’s Advisory Council for IU School of Medicine. Outside the hospital, Dr. Jensen enjoys exploring Indy’s parks with her husband and toddler, as well as trying out new recipes in the kitchen. Originally from the Ozarks, she also loves traveling to visit family and to explore our national parks.
Kate Kingery, PhD, HSPP is a Clinical Assistant Professor of Neurology. She completed her doctorate at the University of Cincinnati, pediatric neuropsychology internship at Texas Children's Hospital/Baylor College of Medicine, and residency in pediatric neuropsychology at Indiana University School of Medicine/Riley Hospital for Children. Dr. Kingery has particular clinical interests in working with epilepsy and hematology/oncology populations. Dr. Kingery supervises residents in the Epilepsy Surgery Program as well as in the Neuro-Oncology Rotation. Outside the hospital, Dr. Kingery grew up in the Hoosier state and enjoys cooking, attending sporting events, and urban farming with her husband, toddler, and brood of animals.

Sarah Koch, PhD, HSPP will join the faculty in 2021 as a Clinical Assistant Professor of Neurology. She completed her doctorate in Medical/Clinical Psychology at the University of Alabama at Birmingham and her residency in pediatric neuropsychology at Indiana University School of Medicine/Riley Hospital for Children. Dr. Koch has a particular interest in working with children with developmental disabilities within the context of their medical condition. Dr. Koch supervises the Neuro-Oncology Rotation of the first-year resident. Outside the hospital, Dr. Koch lives in downtown Indianapolis with her husband, baby daughter, and golden retriever. She and her family enjoy frequenting the city’s canal walk, shops, and restaurants. She is an Indianapolis native and avid Butler basketball fan – go Dawgs!

Brenna McDonald, MBA, PsyD, HSPP, ABPP is a Professor of Radiology and Imaging Sciences, Neurology, and Clinical Psychology in Psychiatry. She is Director of Pediatric Neuropsychology, and Associate Director of the IU Center for Neuroimaging. She completed her doctorate and MBA at Widener University and her residency in neuropsychology and neuroimaging at Dartmouth Medical School. She is board certified in Clinical Neuropsychology, with subspecialty certification in Pediatric Neuropsychology. Dr. McDonald has particular clinical interests in presurgical populations (epilepsy, vascular disorders, brain tumors), for whom she also provides clinical fMRI evaluations. Dr. McDonald is the supervising neuropsychologist for the Epilepsy Surgery Program, and Co-Director of the overall Residency Program with Drs. Jensen and Fred Unverzagt (adult neuropsychology). Dr. McDonald’s research program includes cognitive and structural and functional MRI studies of children with epilepsy, mild traumatic brain injury, and leukemia, as well as cognitive effects of breast cancer chemotherapy. Outside the hospital, Dr. McDonald is a proud Baltimore native and sports fan. She spends free time with her husband and daughter, ideally in the great outdoors, and enjoys running and playing soccer.
Salary & Benefits

**Salary** is $50,004 for the first year and $50,376 for the second year.

**Benefits** are offered at no cost to the resident and include:
- Family health insurance
- Vision and dental insurance
- Life insurance
- Disability insurance
- Malpractice insurance

**Campus parking** is provided at no extra cost.

**PTO** is 15 days (plus 3 professional days) in the first year, and 20 days (plus 5 professional days) in the second year. These are in addition to the 9 standard IU holidays.

**Professional funds** total $3,000 across the entirety of the two-year residency.

Application & Selection

The pediatric track will be recruiting one resident for the 2021-2022 training cycle. Preferred applicants are doctoral candidates in an APA-accredited graduate program in clinical, counseling, or school psychology, and are currently completing an APA-accredited internship. Applicants must participate in the APPCN-affiliated National Matching Service. Interested applicants should submit their materials via email to Dr. Fred Unverzagt (funverza@iupui.edu). All materials must be received by **December 15, 2020**.

- Cover letter
- CV
- 3 letters of recommendation
- Graduate transcript (copies issued to student are acceptable)

Interviews will take place after initial screening of applications. Interviews typically occur during the International Neuropsychological Society Annual Conference, but will be conducted virtually (by phone or videoconference) in 2021 due to COVID-19 precautions.
Indianapolis

Affectionately referred to as the “Crossroads of America,” Indianapolis combines the metropolitan perks of city life with the accessibility of Midwest America. Whether you’re seeking excitement, culture, or commerce, Indy truly has it all.

Active residents of Indiana’s capital can walk, run, or bike the Cultural Trail that encircles and sprawls through every major section of downtown, before slowing to enjoy the scenic Canal Walk or checking out the gold mine of wine and dine that is Mass Ave. For those who prefer to watch others be active, Indianapolis has nearly every major sport covered, between the Colts, the Pacers, and the world-famous Indy 500, along with minor league baseball and professional soccer. Spend a quiet day at our nationally-ranked zoo or one of several museums in the area, including the world’s largest children’s museum. Take in a show with the Indiana Repertory Theater company or the Indianapolis Symphony Orchestra, located in the heart of downtown Indianapolis on Monument Circle.

Other highlights of Indianapolis include:

- Affordable cost of living
- A conveniently-stationed international airport
- A wealth of quality restaurants options from those specializing in vegetarian fare to the acclaimed St. Elmo’s Steakhouse
- The 26-mile Monon Rail Trail, a paved outdoor trail running from the edge of Mass Ave through some of Indy’s most lively suburbs
- Venues that are home to the visual, musical, and performing arts
- A number of historical monuments