



INDIANA UNIVERSITY
SCHOOL OF MEDICINE

Clinical Neuropsychology Residency



Overview

We offer residency training in pediatric and adult clinical neuropsychology. Our residency, founded in 1997 and APPCN-affiliated since 2005, is designed to prepare residents for ABPP-ABCN board certification. The program is staffed by 12 neuropsychology faculty (7 adult, 5 pediatric, 7 board-certified) from the Departments of Psychiatry and Neurology. We have six residents (4 adult and 2 pediatric).

The residency is housed at the Indiana University (IU) Health Neuroscience Center, which is part of the larger IU Health campus in downtown Indianapolis. Also in the system is Riley Hospital for Children at IU Health, where pediatric neuropsychology residents will participate in multidisciplinary rotations.



The residency includes a dedicated core lecture series that covers all neurobehavioral syndromes, clinical neurology and psychiatry, and a multitude of disorders, delivered by our core faculty and guest lecturers from the IU School of Medicine. Residents also gain experience in providing supervision to psychology graduate students and interns.

Clinical Tracks

Adult Track

Residents on the adult track see outpatients (Alzheimer disease, Parkinson disease, Huntington disease, brain tumor, TBI, stroke, multiple sclerosis, environmental exposures, medico-legal referrals) referred from clinical departments within IU Health and the community. Residents have roles in clinical interview, testing, report writing, and feedback to patients, families, and referral sources. There are also sub-rotations in deep brain stimulation and epilepsy clinics. Typical case load is 3-4 consultations per week.

Supervising Faculty: Courtney Johnson, David Kareken, Dan Rexroth, Gwen Sprehn, Christopher Stewart, Angelina Polsinelli, and Fred Unverzagt

Pediatric Track

Residents on the pediatric track conduct outpatient neuropsychological assessments for patients referred by pediatric neurology, oncology, neurosurgery, developmental pediatrics, physical medicine and rehabilitation, and psychiatry, among others. Diagnoses include: epilepsy, concussion, TBI, brain tumor, leukemia, stroke, chromosomal abnormalities, spina bifida, hydrocephalus, and neurofibromatosis. As experience dictates, residents have expanding roles in clinical interview, testing, report writing, and feedback to patient, family, and referral sources. Case load is 2-3 outpatient consultations per week. In addition, there are rotations in neuro-oncology and physical medicine and rehabilitation which take place at Riley Hospital for Children at IU Health, as well as participation in epilepsy surgery conference.

- Neuro-Oncology: attend brain tumor board and provide consultation to neuro-oncology multi-disciplinary clinic
- Physical Medicine and Rehabilitation: provide cognitive assessment and consultation to inpatient rehabilitation unit, case conferences, and supervised consultation to TBI multi-disciplinary clinic

Supervising Faculty: Liz Begyn, Jana Dykstra, Rachel Jensen, Kate Kingery, and Brenna McDonald

Sample Resident Schedules

Adult Track

Monday	Tuesday	Wednesday	Thursday	Friday
New Patient Consultation	New Patient Consultation	New Patient Consultation	Thursday Conference (9:30-11:00)	Psychiatry Rounds (11:00-12:00)
Umbrella Supervision		Umbrella Supervision	New Patient Consultation	Didactics 2:00-4:00 PM
		Grand Rounds (5-6:30 PM)		

New Patient Consultation-Fellow and/or Technician Testing

Umbrella Supervision of Practicum Students and First Year Fellows. Schedule subject to change per clinic needs.

Pediatric Track

Residency Year	Monday	Tuesday	Wednesday	Thursday	Friday
Year 1 3 outpatients: 2 with tech support, 1 fellow tests	Child Neurology Rounds Documentation	Outpatient Evaluation	Epilepsy Conference (2 nd week, 7:30-9) Brain Tumor Boards (1 st and 3 rd weeks, 8) Peds NP Seminar (1 st week, 11-12) NONC MDC (4 th week)	Outpatient Evaluation Thursday Conference (9:30-11)	Outpatient Evaluation
Year 2 2 outpatients: 1 with tech support, 1 fellow tests	Outpatient Evaluation	Rehab Day at Riley Hospital for Children at IU Health Concussion Clinic	Outpatient Evaluation Peds NP Seminar (1 st week, 11-12)	Thursday Conference (9:30-11) Documentation	Epilepsy Conference (4 th week, 7:30-9) Rehab Day at Riley Hospital for Children at IU Health

Didactics

All Fellows

- Instruction and certification in test administration and scoring
- Neuropsychology Case Conference: Residents practice fact finding in the style of ABCN board certification
- Neuropsychology Seminar Series: Lectures and guided readings on topics covering all major adult and pediatric neurobehavioral conditions and clinical neurology and psychiatry
- Functional Neuroanatomy and Neurobehavioral Syndromes short course: sequence offered by Neuropsychology faculty to neuropsychology residents and psychology interns
- Medical Neuroscience Wet Labs: neuroanatomy for medical students
- Neurology Grand Rounds
- Psychiatry Grand Rounds
- Stark Neurosciences Research Institute Seminars
- Indiana Alzheimer Disease Center Clinico-pathologic Case Conference
- Brain cuttings
- Observe fMRI for epilepsy surgery
- Observe neurosurgery
- Shadow in neurology clinic
- Training in the Protection of Human Subjects (IUPUI module)
- Training in Compliance (initially on hire and periodically as required by the School)

Adult Track Opportunities

- Epilepsy Case Conference
- DBS Case Conference

Pediatric Track Opportunities

- Pediatric Neuropsychology Seminar
- Child Neurology Rounds
- Pediatric Brain Tumor Board
- Pediatric Epilepsy Case Conference
- Pediatric Neuro-Radiology Conference
- Observe developmental pediatrics transition clinic

Sample Didactic Schedules

Sample Weekly Opportunities

Day	Time	Title	Location
Monday	8-9:00 AM	Adult Epilepsy Surgery Case Conference	IU Health Neuroscience Center
	12-1:00 PM	Child Neurology Rounds	Riley Hospital for Children
	1-1:30 PM	Pediatric Neuroradiology Conference	Riley Hospital for Children
Tuesday			
Wednesday	7:30-9 AM (2 nd Wed)	Pediatric Epilepsy Case Conference	Riley Hospital for Children
	8-9:00 AM	Pediatrics Grand Rounds	Riley Hospital (or Online)
	8-9:30 AM (1 st and 3 rd)	Pediatric Brain Tumor Board	Riley Hospital for Children
	5-6:30 PM	Neurology Grand Rounds	IU Health Neuroscience Center
Thursday	9:30-11 AM	Neuropsychology Conference	IU Health Neuroscience Center
Friday	7:30-9 AM (3 rd Fri)	Pediatric Epilepsy Case Conference	Riley Hospital for Children
	11:00 AM -12 PM	Psychiatry Grand Rounds	IU Health Neuroscience Center
	2-4:00 PM	Neurology Resident Didactics	IU Health Neuroscience Center
	3-4:00 PM	DBS Surgery Case Conference	IU Health Neuroscience Center

Sample Professional Development Didactic Schedule

Month	Topic	Speaker
September	Ethics I: Ethics for Neuropsychologists	Gwen Sprehn, PhD
November	Neuropsychology Interviewing: Finding a Job	Gwen Sprehn, PhD
November	Private Practice in Neuropsychology	Crystal Ramos, PsyD
December	Ethics II: Vignettes of Ethical Dilemmas	Gwen Sprehn, PhD
March	Board Certification in Clinical Neuropsychology	Courtney Johnson, PhD, Brenna McDonald, PsyD, Fred Unverzagt, PhD
June	Ethics III: Positive Ethics	Gwen Sprehn, PhD
June	Ethics IV: Professional Qualifications and Affiliations, Ethical Misconduct in Forensic Neuropsychological Practice	Gwen Sprehn, PhD

Sample Neuropsychology Conference Schedule

Date	Topics	Speakers
November	Neuroanatomy I: Major Cortical and Subcortical Brain Structures	David Kareken, PhD
December	Neuroanatomy II: Cranial Nerve & Vasculature	David Kareken, PhD
January	Neuroanatomy III: Sensory & Motor System	David Kareken, PhD
November	Pediatric Psychopharmacology: An Overview	Leslie Hulvershorn, MD
December	Neuropsychological Assessment after Brain Injury	Dan Rexroth, PsyD
January	Adult Psychopharmacology: An Overview	Dan Bateman, MD
February	Brain Tumors: What Neuropsychologists Need to Know	Gwen Sprehn, PhD
March	Learning Disabilities	Rachel Jensen, PsyD
March	Complex Visual Processing Disorders: Syndromes and Neuroanatomical Correlates	Courtney Johnson, PhD
March	Somatoform Disorders: Overview and Treatment Primer	Courtney Johnson, PhD
April	Dementia Diagnosis and Management for Neuropsychologists	Jared Brosch, MD
May	Neurological Examination: A Primer	John Kincaid, MD
June	Schizophrenia, Bipolar Disorder, and Depression	Chris Stewart, PhD
May	Neuropsychology of Frontotemporal Dementia	Fred Unverzagt, PhD
July	Prion Diseases	Ryan Greene, PsyD
August	Psychotropic Update	Sophia Wang, MD
August	Parkinson Disease	Liz Zauber, MD
September	Neurobehavioral Syndromes: Functional Neuroanatomy	Fred Unverzagt, PhD
October	Memory: A Clinical Approach	Fred Unverzagt, PhD
October	Challenges of Diagnosing MCI	Fred Unverzagt, PhD
October	Frontotemporal Temporal Dementia, Lewy Body Dementia, Mild Cognitive Impairment	Dan Rexroth, PsyD
December	Forensic Psychiatry	George Parker, MD
January	Attention-Deficit/Hyperactivity Disorder	Liz Begyn, PhD
January	An Introduction to Pain Psychology	Samantha Outcalt, PhD
March	Neuroradiology: The Basics	Aaron Kamer, MD
March	Genetic Disorders and Toxicity	Brenna McDonald, PsyD
April	Hemispatial Attention, Neglect, and Confusional State	Fred Unverzagt, PhD
May	Rehabilitation Psychology	Liz Begyn, PhD
May	Epilepsy and EEG	Dragos Sabau, MD
June	Autism, Asperger, and Pervasive Developmental Disorders	Brenna McDonald, PsyD
June	Environmental Toxicants	Brenna McDonald, PsyD
August	Acute Lymphoblastic Leukemia	Rachel Jensen, PsyD
August	Stroke, Bleeds, Arteriovenous Malformation, and Anoxia	Gwen Sprehn, PhD
August	Mitochondrial Disorders	Laurence Walsh, MD
September	Aphasia: Syndromes and Neural Substrates	Courtney Johnson, PhD
October	Alzheimer Disease: Update on Treatment Trials	Kristin Wroblewski, PhD

Resident Training Experiences Timeline

Start of PGY-1

1. Certification in test administration
2. Online CDR training and certification (<https://knightadrc.wustl.edu/cdr/cdr.htm>) – required for adult track residents, optional for pediatric track residents
3. Medical Neuroscience course Wet Lab (multiple sessions)
4. Functional Neuroanatomy and Neurobehavioral Syndrome lecture to Psychology Interns (multiple sessions)
5. IUSOM compliance training
6. IUPUI research with human subjects certification (CITI)

End of PGY-1

1. University of Washington, Digital Anatomist (<http://da.si.washington.edu/cgi-bin/DA/imageform>) - brain surface, 14 modules
2. Digital Anatomist - brain dissections, 18 modules
3. Digital Anatomist - coronal forebrain, 20 modules
4. Digital Anatomist - horizontal forebrain, 14 modules
5. Digital Anatomist - MRI coronal forebrain, 20 modules
6. Digital Anatomist - MRI horizontal forebrain, 30 modules
7. Digital Anatomist - MRI sagittal forebrain, 24 modules

End of PGY-2

1. Brain cutting
2. Neurosurgery observation
3. Neurology clinic shadow
4. fMRI observation
5. INS or AACN abstract submission; or scholarly presentation to Neuropsychology Case Conference or departmental Grand Rounds

Supervision and Evaluation

Supervision

Training follows the apprenticeship model, with residents assuming greater clinical autonomy as experience increases. Early on, the resident observes faculty conducting evaluations. As competence progresses, the resident leads the interview and staffs the case with faculty. The faculty member offers input as needed, and the evaluation continues under the direction of the resident. The resident drafts a report, which is finalized with supervision. The faculty member observes the resident's feedback to the patient, family, and referral source.

Evaluation

Formal reviews occur at months 6, 12, and 24 of the residency. Residents complete an activity log for clinical service and didactic attendance. Each clinical supervisor rates the resident's knowledge base and professional practice on structured rating forms. The training director meets with the resident to review the activity log and faculty ratings at each evaluation point.



Faculty



Frederick W. Unverzagt, PhD, ABPP/ABCN

Director, Clinical Neuropsychology Residency Program
Adult Track Faculty (Psychiatry)

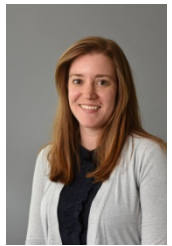
<https://medicine.iu.edu/faculty/14601/unverzagt-frederick/>



Brenna C. McDonald, PsyD, MBA, ABPP/ABCN

Co-director, Clinical Neuropsychology Residency
Director, Pediatric Neuropsychology
Pediatric Track Faculty (Neurology)

<https://medicine.iu.edu/faculty/7297/mcdonald-brenna/>



Rachel M. Jensen, PsyD

Co-director, Clinical Neuropsychology Residency
Pediatric Track Faculty (Neurology)

<http://medicine.iu.edu/neurology/faculty/rachel-jensen/>



David A. Kareken, PhD, ABPP/ABCN

Director, Section of Neuropsychology
Adult Track Faculty (Neurology)

<https://medicine.iu.edu/faculty/1901/kareken-david/>



Daniel F. Rexroth, PsyD

Director, Neuropsychology Clinic in Psychiatry
Adult Track Faculty (Psychiatry)

<https://medicine.iu.edu/departments/psychiatry/faculty/10218/rexroth-daniel/>



Gwen C. Sprehn, PhD, ABPP/ABCN

Director of Clinical Services, Neuropsychology Clinic in Neurology
Adult Track Faculty (Neurology)

<https://medicine.iu.edu/departments/neurology/faculty/18104/sprehn-gwen/>



Elizabeth L. Begyn, PhD, ABPP/ABCN

Director of Clinical Services, Pediatric Neuropsychology Clinic
Pediatric Track Faculty (Neurology)

<https://medicine.iu.edu/departments/neurology/faculty/20212/begyn-elizabeth/>



Courtney B. Johnson, PhD, ABPP/ABCN

Director, Neurobehavioral Treatment Program
Adult Track Faculty (Psychiatry)

<https://medicine.iu.edu/departments/psychiatry/faculty/18919/johnson-courtney/>



Jana B. Dykstra, PhD

Pediatric Track Faculty (Neurology)

<https://medicine.iu.edu/departments/neurology/faculty/38739/dykstra-jana/>



Christopher Stewart, PhD, ABPP/ABCN

Adult Track Faculty (Neurology)

<https://medicine.iu.edu/departments/neurology/faculty/42688/stewart-christopher/>



Kathleen Kingery, PhD

Pediatric Track Faculty (Neurology)

<https://medicine.iu.edu/departments/neurology/faculty/38309/kingery-kate/>



Angelina Polsinelli, PhD

Adult Track Faculty (Neurology)

Policies, Salary and Benefits

Policies

All policies are based on the [IUSOM GME Resident Handbook](#). Program-specific interpretations are included. These guidelines were developed in the context of the Residency as a professional training program. As with any professional activity, experience gained during residency is typically related to time and effort expended.

Salary

Resident salary is \$50,004 for the first year and \$50,376 for the second year.

Benefits

Benefits offered at no cost to residents include: family health insurance, vision and dental insurance, life insurance, disability insurance, and malpractice insurance. Campus parking will also be provided at no cost.

Time Off

In Year 1, residents receive 15 paid days off and 3 days off for professional development (e.g., conferences, EPPP) that do not count against paid time-off (PTO). In Year 2, residents receive 20 paid days off and 5 days off for professional development. These days are in addition to the standard IU holidays.



Welcome to Indianapolis!

Indianapolis is the 16th largest city in the United States, and it continues to grow. The expansion has revitalized historic neighborhoods and brought exciting new attractions. Indianapolis is home to the largest children's museum in the world and has several professional sports teams, including the Indianapolis Colts (football), Indiana Pacers (basketball), Indiana Fever (basketball), Indianapolis Indians (baseball), and Indy Eleven (soccer). Speaking of sports, the iconic Indianapolis Motor Speedway is situated just west of downtown. In addition to sports, Indianapolis is quickly becoming a cultural hub in the Midwest. Art, entertainment, food, craft beverages, special events and festivals are just some of the amazing resources in Indianapolis. If hiking and the great outdoors are more to your liking, there are beautiful trails, parks, and nature preserves located with the Indianapolis city limits, as well as just a short drive away.



Application Procedures

Requirements

- Doctoral candidate in APA-approved program in clinical or counseling psychology preferred.
- APA-approved internship preferred.
- Applicants must participate in the APPCN-affiliated National Matching Service.

Application

- Cover letter (specify whether interested in adult or pediatric program)
- Current curriculum vitae
- Three letters of recommendation
- Graduate and undergraduate academic transcript (copies issued to student are acceptable)
- **All materials must be received by January 6.**
- Please send application materials:
 - As attachments in an email to Dr. Unverzagt at funverza@iupui.edu.
 - **Or** via physical mail to:

Frederick W. Unverzagt, PhD
Training Director, Clinical Neuropsychology Residency
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IU Health Neuroscience Center
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Notification and Contract

- Applications will be reviewed and, based on the review, interviews will be arranged either on-site or at the February INS meeting.
- Our residency program is APPCN-affiliated and participates in the National Matching Service for selection of neuropsychology residents.
- Matched candidates will receive formal contracts issued from the Indiana University School of Medicine, Office of House Staff Affairs.