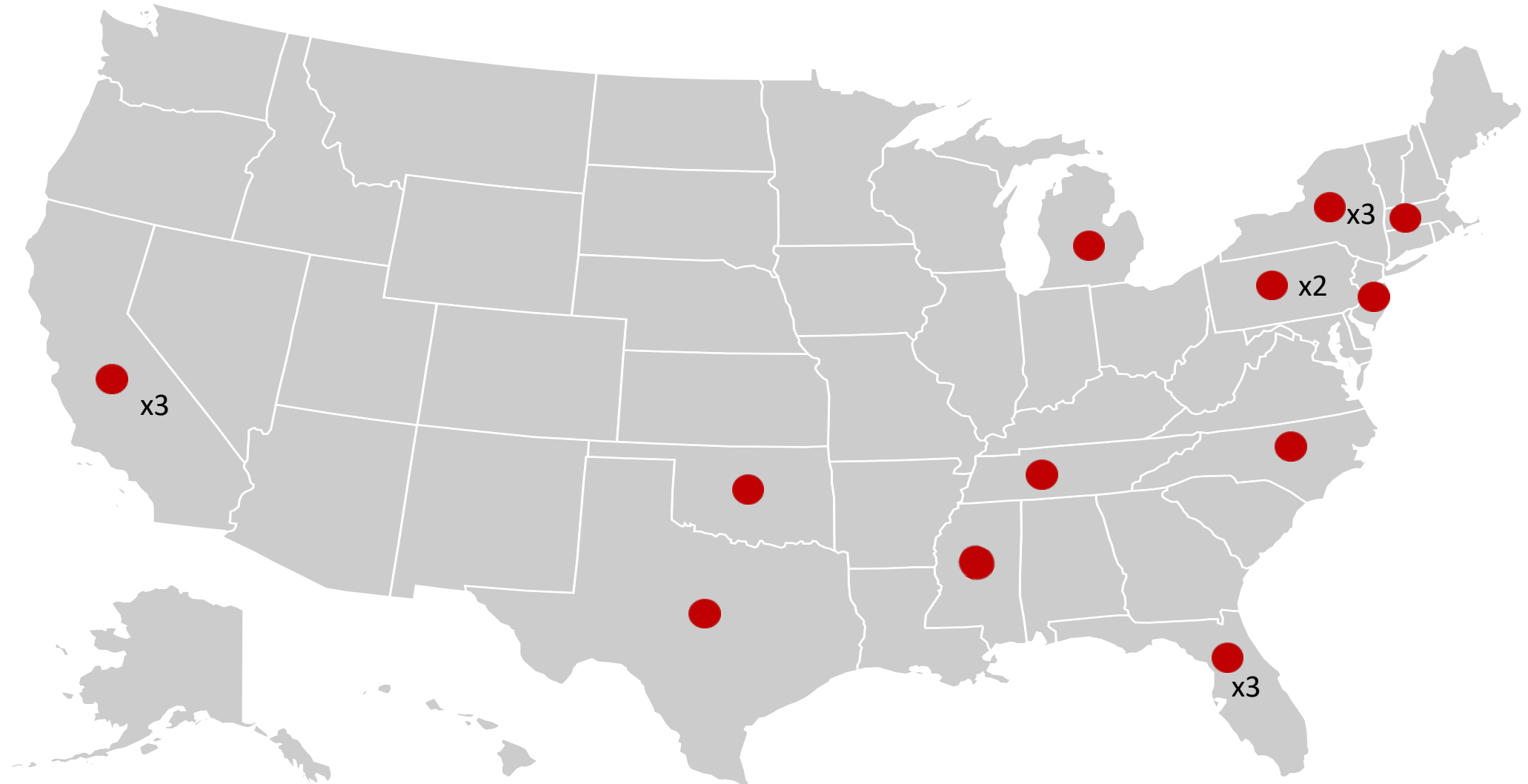


Vanderbilt University Medical Center

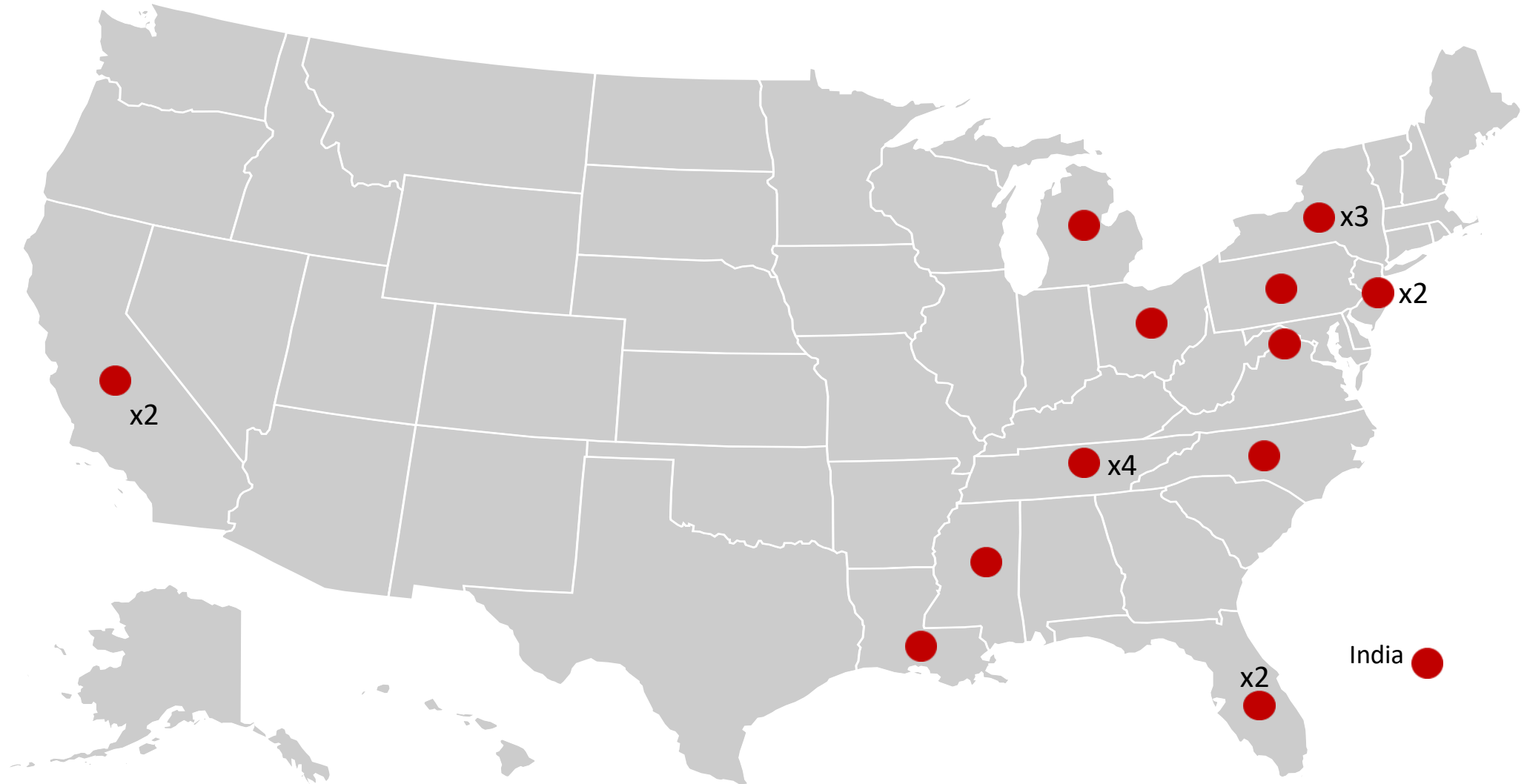
Department of Neurological Surgery Residency Program

Current Resident's Hometown

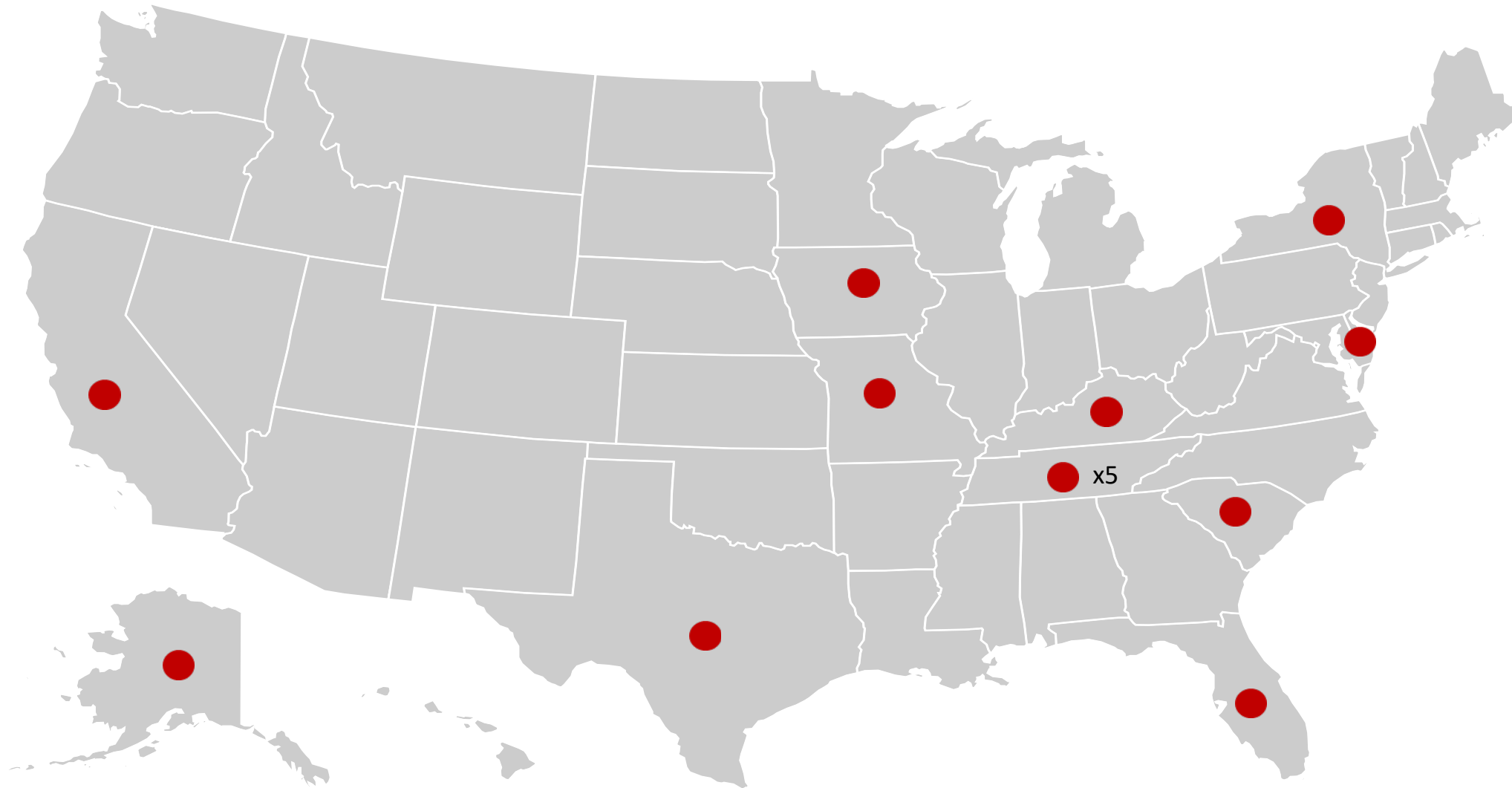


Ghana
India

Current Resident's Medical School



2017-2022 Alumni Practice Location



Alumni Practice Type

Data from 2017-2022 graduates

Practice Type	#	
Private	5	
Academic	10	
Subspecialty	#	Fellowship
Pediatric	2	2
Spine	5	2 post/3 enfolded
Tumor/Skull base	4	2
Vascular	4	4 enfolded

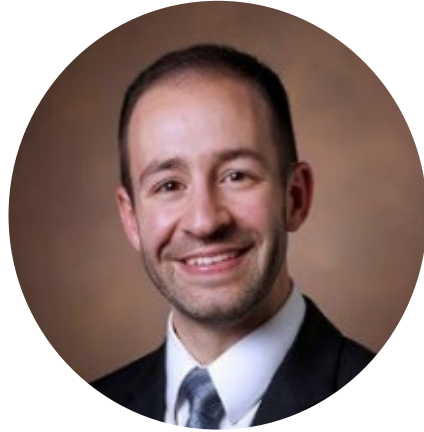
Tumor/Skull base



Reid Thompson, MD



Lola Chambless, MD



Peter Morone, MD



Allen Sills, MD



Patrick Kelly, MD

Functional



Dario Englot, MD, PhD



Sarah Bick, MD



Tyler Ball, MD

Spine



Richard Berkman, MD



Chris Bonfield, MD



Ross Dawkins, MD



Jacob Schwarz, MD



Scott Zuckerman, MD

Vascular



Michael Froehler, MD, PhD

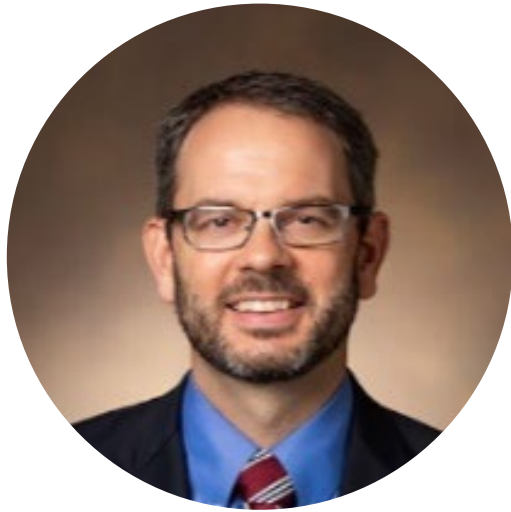


Matthew Fusco, MD



Rohan Chitale, MD

Pediatric Neurosurgery



Jay Wellons, MD



Robert Naftel, MD

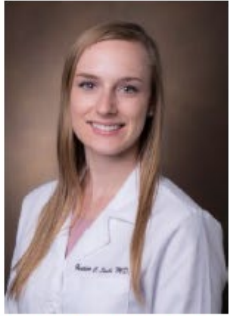


Christopher Bonfield, MD

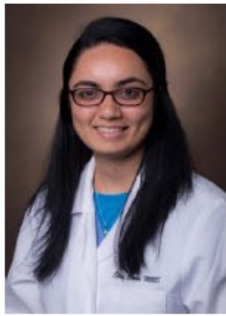


Michael Dewan, MD

Neurosurgery Residents and Fellows



Heather Grimaudo
PGY 7/ Endovascular Fellow



Silky Chotai
Chief PGY 7



Danika Paulo
Chief PGY 7



Amaan Ali
Chief PGY 6



Rob Dambrino
PGY 6



Naveed Kamal
PGY 6



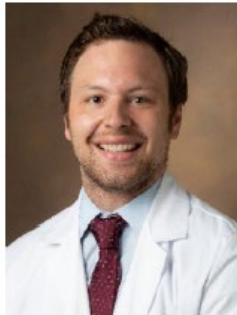
Campbell Liles
PGY 5



Ni Mummareddy
PGY 5



Soren Jonzson
PGY 4



Michael Longo
PGY 4



Iyan Younus
PGY 4



Randy Ahluwalia
PGY 3



Meredith Monsour
PGY 3



Tyler Zeoli
PGY 3



Keyan Peterson
PGY2



Bree Reisen
PGY 2



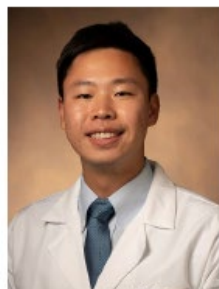
Kwadwo Sarpong
PGY 2



Lohit Velagapudi
PGY 2



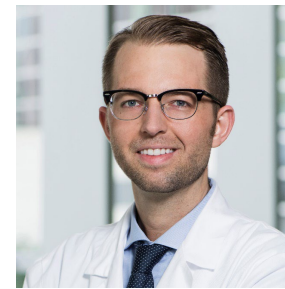
Tamia Potter
PGY 1



Allen Tang
PGY 1



Freddy Vallejo
PGY 1



Ryan Austerman, MD
Functional Fellow



Nicholas Szufliita, MD
Pediatric Neurosurgery Fellow

Neurosurgery APPs

The Department of Neurosurgery has more than 25 Advanced Practice Providers that support faculty and residents, both inpatient and outpatient.

Residency Program Administration



Pam Lane
Program Manager



Sally Winkle
Associate Program Manager

Vanderbilt Campus



VA
Hospital

Children's
Hospital

Medical Center
Hospital

Neurosurgery Residency Training

All residents must complete 84 months of training in ACGME accredited programs.

Twenty-one months must be spent in one program; the board will evaluate ACGME case log data as a measure of the breadth of resident experience at the completion of residency training.

Training must consist of:

54 months of core clinical neurosurgery, including:

- 12 months as chief resident during the last two years of training (PGY-6 or 7)
- 3 months of basic neuroscience taken in the first 18 months of training
- 3 months of critical care relevant to neurosurgery patients taken in the first 18 months of training
- A minimum of 6 months of structured education in general patient care (e.g., trauma, general surgery, neurosurgery, orthopedic surgery, otolaryngology or plastic surgery).

Six to 12 months in an outside rotation in an ACGME accredited program may be counted towards the core 54 months of neurosurgery training. The program director must request credit from the ABNS prior to the rotation.

30 months of electives in areas such as neuropathology, neuroradiology, research, additional neurosurgery or possibly in areas of special interest such as complex spine surgery, endovascular or pediatric neurosurgery or clinical and non-clinical neurosciences.

Program Structure-Cases

Some of the types of cases included in resident training:

Tumor/Skull base-

- Craniotomy or craniectomy for tumor, trauma, fractures
- Chiari decompression
- Stereotactic brain biopsy
- EVD and shunts

Vascular-

- Ventriculostomy
- Mechanical thrombectomy for stroke
- Craniotomy or craniectomy for ICH/stroke
- Medical and intra-arterial treatment of vasospasm

Functional-

- Microvascular decompression
- Stereotactic procedures
- Deep Brain Stimulation/ Neurostimulation
- Epilepsy craniotomy

Spine (cervical, thoracic, lumbar)-

- Decompression, fusion, instrumented fusion
- Corpectomy
- Occipital cervical fixation
- Spinal deformity
- Peripheral nerve

Pediatrics-

- Craniotomy or craniectomy for tumor, trauma, fractures, vascular
- Chiari decompression
- EVD and shunts
- Brachial plexus surgery
- Cranial facial surgery
- Spinal procedures including deformity



Program Structure – Junior Years

PGY 1

- 4 months neurosurgery
 - Carry consult pager 6a-6p, M-F
 - Help out 1 weekend morning each week
 - Lots of bedside procedures, welcome in OR if feasible
- 3 months neurology
 - Stroke and consults
- 2 months Neuro critical care
- 1 month each neuroanesthesia, trauma, ER, neuropathology

PGY 2

- 4 months neurosurgery on each VUH service
 - Tumor/skull base, Functional/Vascular, Spine
 - Scrubbed in surgery all day, every day when not on night float
 - Night float system

PGY 3

- 4 months on Peds Neurosurgery (VCH)
 - Share daytime floor & consult with NP
 - Clinic one day/week, OR four days/week
 - Q4 home call covering VCH/VA only
- 4 months on VA
 - Cover all daytime floor, consult & OR duties. Share clinic with PA.
 - Clinic one day/week, OR two days week
 - Q5 in house call at VUH
- 4 months on Float at VUH
 - Round with busiest service
 - Mentor PGY 1 & 2 residents
 - OR daily, wide variety of cases
 - Q5 in house call at VUH
 - Cover daytime responsibilities for junior residents OOT for vacation/conference

Program Structure – Senior Years

PGY 5 or 6 Senior Clinical Year

- 4 months neurosurgery on each VUH service
 - Tumor/skull base, Functional/Vascular, Spine
- Q6 home back-up call
- OR every day on rotation-specific cases
- Run resident clinic one day/week when on Tumor rotation
- Cover chief duties when they are OOT for vacation, interview, or conference
- Multiple Global Neurosurgery trips available

PGY 6 or 7 Chief Year

- 4 months neurosurgery on each VUH service
 - Tumor/skull base, Functional/Vascular, Spine
- Q6 home back-up call
- OR every day on rotation-specific cases
- Administrative responsibilities
 - Manage call schedule
 - Manage OR schedule
 - Approve resident time out

Program Structure-Subspecialty/Elective Years

- Often PGY 4/5 vs PGY 4/6 vs PGY 4/7
- PGY 4 covers Q4 home call for VCH/VA
- Second year completely protected time
- If pursuing CAST accredited Fellowship must make these years PGY 4 & 7

Past Five Years Resident's Experience

Clinical subspecialty- 5

NIH Funded Basic Research-2

Global Health- 1

Clinical/Away Rotation- 1

Advanced Degrees-4

Program Structure-Subspecialty Years

▪ Clinical

- CAST accredited Fellowships and Subspecialty training in other areas

- Away rotations

(past examples: 6 months at Cornell in skull base, 3 months at Mayo in peripheral nerve, 3 months at MD Anderson for spine oncology)

▪ Research

- Track record of independent funding for residents
- NIH funded basic science example
 - 2 residents with \$150k F32 grants
 - T32 training grant sponsoring residents to obtain MPH
 - \$20k in house neuro-oncology grant
 - Numerous grants up to \$10k through VICTR
 - NIH funded basic science example

- Must see resources

www.Vanderbilt.edu/vise

www.Vanderbilt.edu/thewondry

www.victr.vumc.org/our-programs

www.victr.vumc.org/biovu-description

www.vumc.org/socks/home

www.vumc.org/vscc-research

▪ Global Neurosurgery

- Approximately 4-5 neurosurgery trips per year
 - Peru, Tanzania, Uganda
- Outstanding structured fellowship opportunities:

www.vumc.org/vecd

www.pgssc.org/paul-farmer-global-surgery-fellowship

Program Structure-Subspecialty Years

- Additional Degrees

- Prior residents have obtained MBA, MPH, MSCI degrees
- Tuition support through T32 training grant and department
- Encouraged to participate in organized neurosurgery (CNS Resident Fellow, CSNS Fellow, Neurosurgery Publication Fellow, etc)

- The Reality

- Most residents choose a blend of research and clinical activities
- Significant mentorship in the PGY 3 year drives initial plans
- Okay to change lanes
- The goal: prepare you for the career YOU envision
 - No good idea will be rejected!

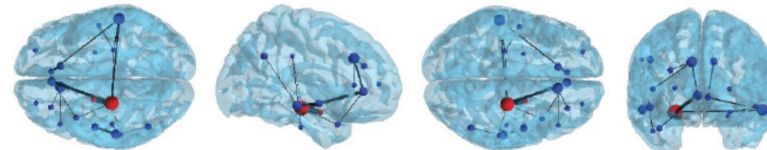
Research Opportunities



Vanderbilt Sports
Concussion Center



Brain Imaging and Electrophysiology
(BIEN) Lab



SOCKS QUICK FACTS

112

CURRENT STUDIES



65

PUBLICATIONS



WORKING WITH

43

TRAINEE
RESEARCHERS



27

ACADEMICALLY-
PRODUCTIVE
SURGEONS

7

MULTICENTER
NETWORKS



RESULTING IN

4

RESEARCH AWARDS
RECEIVED



Program Structure-Subspecialty Year Examples

- NIH Funded Basic Science Example

- PGY 1-3 as usual
- PGY 4 preliminary research and grant writing
 - Only resident responsibility is Q4 home call at VCH/VA
 - Submit grant
 - 12 months elective
- PGY 5 senior resident on clinical service
- PGY 6 grant funded research
 - No resident responsibilities
 - 12 months elective
- PGY 7 Chief resident

- CAST Accredited Example

- PGY 1-3 as usual
- PGY 4 “junior fellow”
 - 12 months elective
- PGY 5 senior resident on clinical service
- PGY 6 Chief resident
- PGY 7 “senior fellow”
 - 12 months elective
 - No residency responsibilities
 - Graduate with CAST accreditation

Didactics

Conference	Day & Time
Neurosurgery Grand Rounds Neurosurgery MMI	Weekly/ Wed 6:30-7:45a Second Wed of each month
Oral Boards Review Podium Presentations	Qtrly/ Wed 6:30-7:45a
	Qtrly/ Wed 6:30-7:45a
Neurosurgery Journal Club	Weekly/ Tue 6-7:30p
Neurosurgery Chief Conference	Weekly/ Fri 7-8am
Multidisciplinary Surgical Section M&M/Improvement conference	Quarterly/ Fri 7-8am First Friday
Multidisciplinary Surgery for Movement Disorders Conference	Monthly/ 1st Fri 10:30a-12:15p Sloan Conf Room
Epilepsy Conference	Monthly/ 1st & 3rd Fri 12:30-2:15pm Sloan Conf Room

Conference	Day & Time
Cerebrovascular M&M conference	3rd Friday 4-5p CV work room 9th floor
Multidisciplinary CV Board Meeting	Every Tue 4-5p NICU 6th floor conf room
Combined Neurosurgery and Ortho Spine Conference	3rd Fri of each month 7-8am MCE ST 4212
Pituitary Tumor Conf	Weekly/ Wed 11a-1p MCE 8450
Brain Tumor Board	Weekly/ Fri 9:15-10:15 am VUH Critical Care 10th floor
Peds Neuro-oncology Tumor Board	Weekly/ Monday 4-5pm VCH 3349
Peds Neurovascular	1st/3rd Thursday 4-5pm VCH 1023
Peds Epilepsy	Thursday 12-1pm VCH 1023
Peds morning report	M-T-Th-F 7:15-8am VCH 1023

Department Information

Residency Program Video:

<https://www.youtube.com/watch?v=rv1wH1Zvd3M>

Residency Program Website:

<https://www.vumc.org/neurosurgerydept/residency-program-welcome>

Neurosurgery Website:

<https://www.vumc.org/neurosurgery>

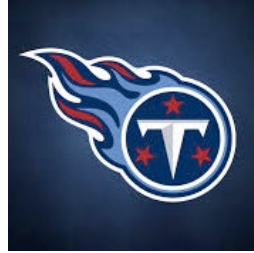
Resident Wellness/Group Outings



Nashville... activities for everyone



biking natchez trace



Football



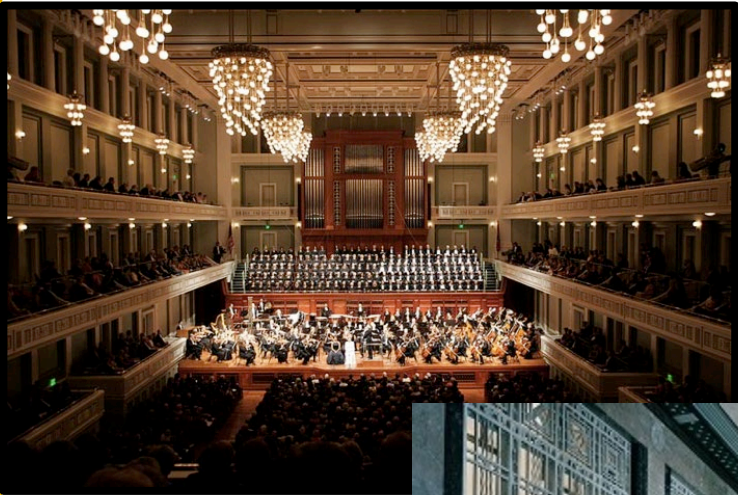
Hockey



Baseball



climbing king's bluff



Nashville
Symphony



Frist Art Museum



center hill lake



Arrington Winery



NASHVILLE

a great place to call "home"