Education and Training Core Update

Randolph Marshall, MD, MS
Devin Brown, MD
September 30, 2024
Atlanta, GA

Education and Training Core

- Mission: To develop stroke-related knowledge and skills for RCC trainees through interactive content and mentorship

- Vision: To become the preeminent platform for education and training of future leaders in stroke research

Education and Training core

- Randolph Marshall (Chair)
- Devin Brown (Co-Chair)
- Scott Janis (NINDS)
- Tatjana Rundek
- Cemal Sozener
- Farhaan Vahidy
- Anthony Kim
- PLUS 2 new members…

- Andrea Escobar (RCC PM/coordinator)
- Stephanie Wilbrand (RCC PM/coordinator)
- ***Kelsey Eklund, MD, U Colorado (Trainee)***
- ***Dylan Ryan, MD, Duke (Trainee)***
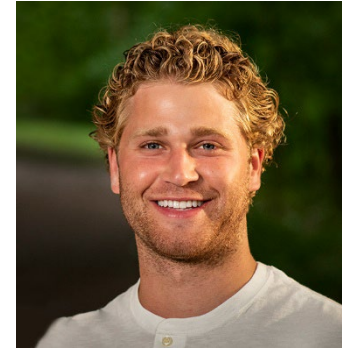
- *Jeanne Sester (ETC Core coordinator)*

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Diego Arias, PhD
MUSC

Paragol Balali, MD
UPENN
*

Kriti Bhayana, MD
Texas

Ryan Bowen, PhD
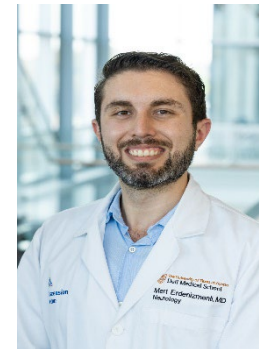Washington U.

Elizabeth Byrd, PhD, RN
UAB
*

Julián Carrión-Penagos, MD
UCSD

Nitin Ramanujam
Chakravarthula, MBBS
Minnesota

Kelsey Eklund, MD
New Mexico

Mert Erdenizmenli, MD
UCLA

Nathanial Fleming, MD
UCSF

Julie Gudenkauf, MD
Iowa
*

Ashkan Javadzadeh, MD
USC

Lorelei Johnson, PhD
Wake Forest
*

Sean Kelly, MD, PhD
Mount Sinai

Lovisa Ljungberg, MD
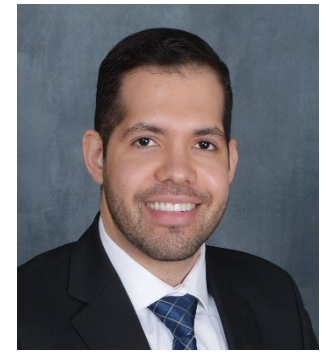Cincinnati

Michael McCartin, MD
Chicago

Luis Carlos De Carvalho Paixao, BMBCh *
Miami

Srinath Ramaswamy, MD *
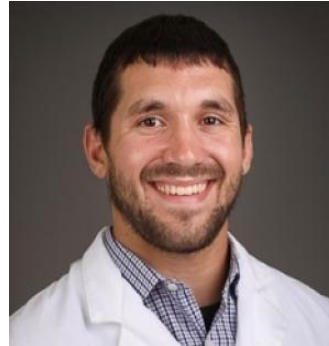Columbia

Savio Batista dos Reis, MD *
Emory

Lucas Rios Rocha, MD
Pittsburgh

Kazandra Rodriguez, PhD *
Michigan

Johanna Rotta, MD *
MGH

Dylan Ryan, MD
Duke

Sepideh Kiani Shabestari, PhD
Stanford

Aaron Shoskes, DO *
Utah

Liqui Shu, MD *
Yale

Gregory States, PhD
Case Western

Cesario Thellan, MD
MedStar

2024-2025 Trainees (n=28)

Career stage	
Clinical Fellow	13
Junior Faculty	9
Post-Doctoral Research Fellow	5
Non-MD trainee	1

Degrees	
MD	16
DO	1
MBBCh/MBBS	2
MD, MSc	1
MD, PhD	1
Non MD Trainee	0
PharmD, BCPS	0
PhD/expected	6
PhD, RN	1
PhD, PT, DPT	0

Disciplines	
Biomedical Engineering	2
Emergency Medicine	1
Emergency Medicine Pharmacist	0
Medicine	2
Neurologist/ Vascular Neurologist	18
Nursing	1
Neuroscientist	1
Pediatric Neurologist	1
Physical Therapy	1
Speech Pathology	1
Data Science	0

Demographics	
Male	17
Female	11
Latino/Hispanic	5
African American	1

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Education Training Core

Core Programming –

- Grand Rounds Webinar Series

- *Professional Development Webinar Series*

- *Basic Science Webinars*

- *Learning Communities*

- Mentored Trainee Research with presentations

NIH StrokeNet Grand Rounds Schedule 2024-2025

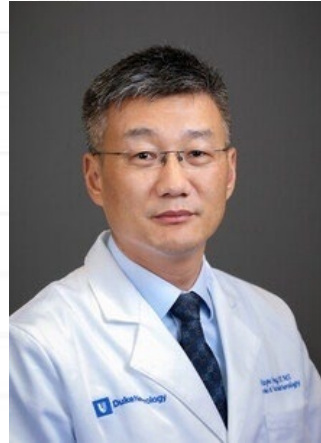| Date	Topic	Speaker	Institution
July 25	Treating No-Reflow in the Microcirculation after EVT	Ope Adeoye, MD	Washington Univ., St. Louis
Aug 29	Coma & Recovery of Consciousness: Prognosis and Biomarkers	Jan Claasen, MD, FNCS	Columbia University
Sept 26	Opportunities to Work with Community Health Workers to Enhance Inclusion and Optimize Recruitment and Retention in Trials	Bernadette Boden-Albala, MPH, DrPH	University of California Irvine
Oct 24	Dosing in Rehab Interventions	Steven Wolf, PhD	Emory
Nov 21	Thrombolysis in Patients with Recent DOAC use	Magdy Selim, MD	BIDMC Harvard
Jan 30,	Don't Neglect Neglect! Identification, Subtypes, and Interventions	Lorie Richards, PhD	University of Utah
Feb 27	Cerebral Arteriopathies	Aneesh B. Singhal, MD	MGH Harvard
Mar 27	Gloves Off for Acute Stroke Management: Fellow Case Presentations to 2 Stroke Experts	Negar Asdaghi, MD Brett Meyers, MD	U Miami UCSD
April 24	Determinants of Sex Differences in Stroke Risk and Cognitive Impairment	Eliza Miller, MD	Columbia University
May 29	AI: Risk or Benefit to the Future of Stroke Care?	Guido Falcone, MD	Yale

Professional Development Webinar series 2024-5

Date	Topic	Speaker	Time	Institution
Aug 19	Grant Writing	Dan Woo, MD	12 Noon	University of Cincinnati
Sept 4	Tips for a Successful Scientific Presentation	Enrique Leira, MD	1 PM	University of Iowa
Oct 24	Mentoring	Devin Brown, MD	4 PM	University of Michigan
Nov 4	Statistical Analysis – Collaborating with Data Mgt & Statistical Teams – Experts in Research	Jordan Elm, PhD	12 Noon	MUSC

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Basic/Translational Science Schedule 2024-2025

Date	Topic	Speaker	Institution
Oct 8 12:00 pm ET	Pharmacogenomics in Stroke Precision Medicine.	Dr. Guillaume Paré	McMaster University
Mar 20 2:00 pm ET	Novel Hemostatic Interventions for Spontaneous Intracerebral Hemorrhage	Kunjan Dave, PhD Sebastian Koch, MD	University of Miami University of Miami

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2024-2025 Learning Community Group Leaders

Wayne Feng, MD

Brett Cucchiara, MD
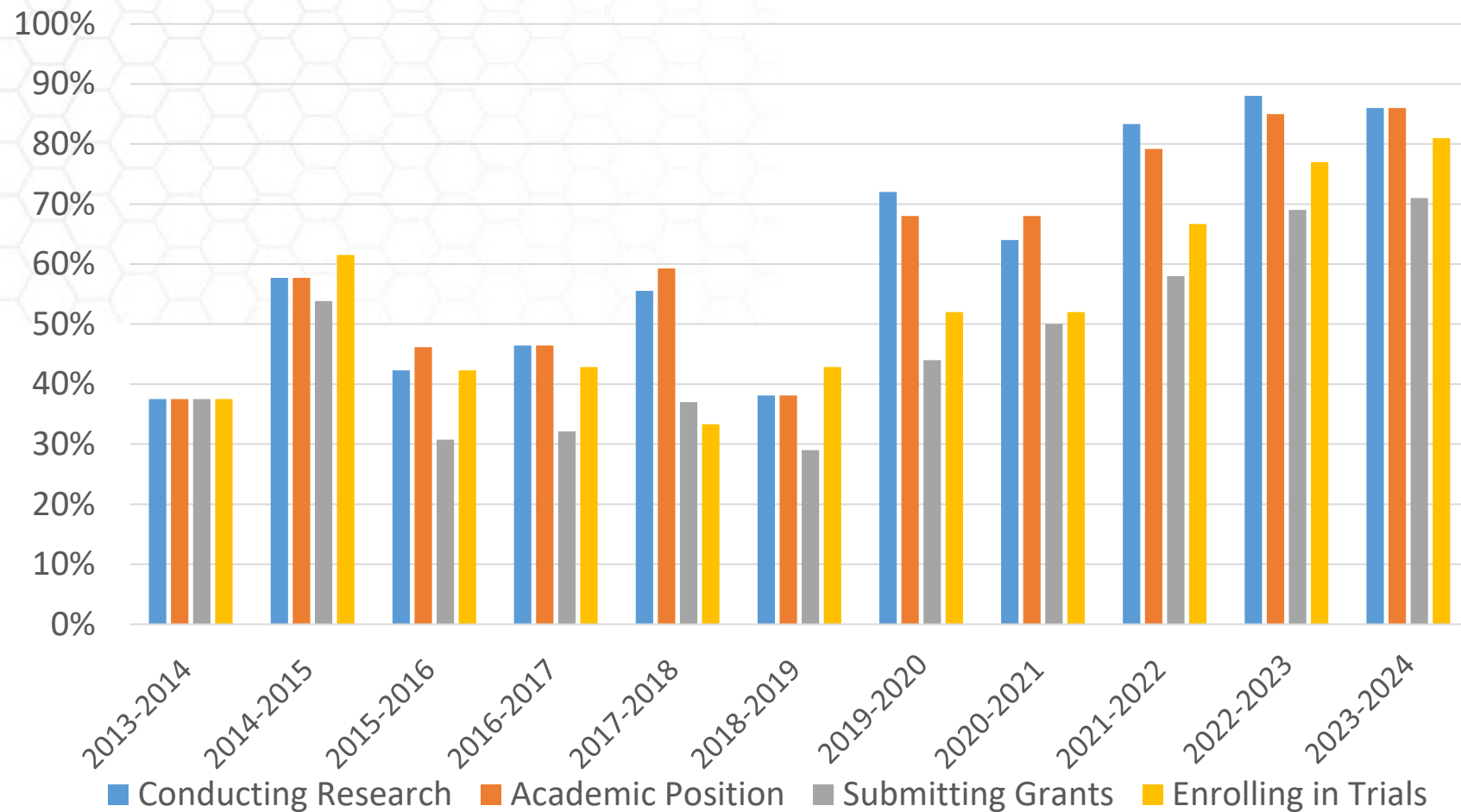
Anthony Kim, MD

Cemal Sozener, MD

Brad Worrall, MD

Learning Communities 2024-2025

ANTHONY

31 University of New Mexico	Kelsey Eklund, MD	Non-traditional stroke risk factors
26 University of Alabama Birmingham	Elizabeth M. Byrd, PhD, RN	Stroke transitions of care
13 UCSF	Nathanial Fleming, MD	primary and secondary prevention
14 UC	Lovisa Ljungberg, MD	Post-stroke transitions of care
06 Medstar	Cesarina S Thohan, MD	Health disparities

BRAD

04 Massachusetts General	Johanna Rotta, MD	Vascular neurology and dementia
15 Iowa	Julie C. Gudenkauf, MD	Infectious and inflammatory conditions
18 Minnesota	Nitin Chakravarthula, MBBS	Cardiac CT Angiography
19 UPENN	Pargol Balali, MD, MSc	Biomarkers for ICH
21 Texas	Kriti Bhayana, MD	Pediatric Stroke

BRETT

02 Columbia Health Sciences	Srinath Ramaswamy, MD	RCVS, ESUS
07 Mount Sinai	Sean M. Kelly, MD, PhD	Risk factors
11 USC	Ashkan Javadzadeh, MD	ICH, SVD, Moyamoya
12 UCSD	Julián Carrión-Penagos, MD	Venous thrombosis, Telestroke
22 Utah	Aaron Shoskes, DO	Cancer-associated stroke
30 Duke Univesity	Dylan Ryan, MD	Stroke in patients cancer

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Learning Communities 2024-2025
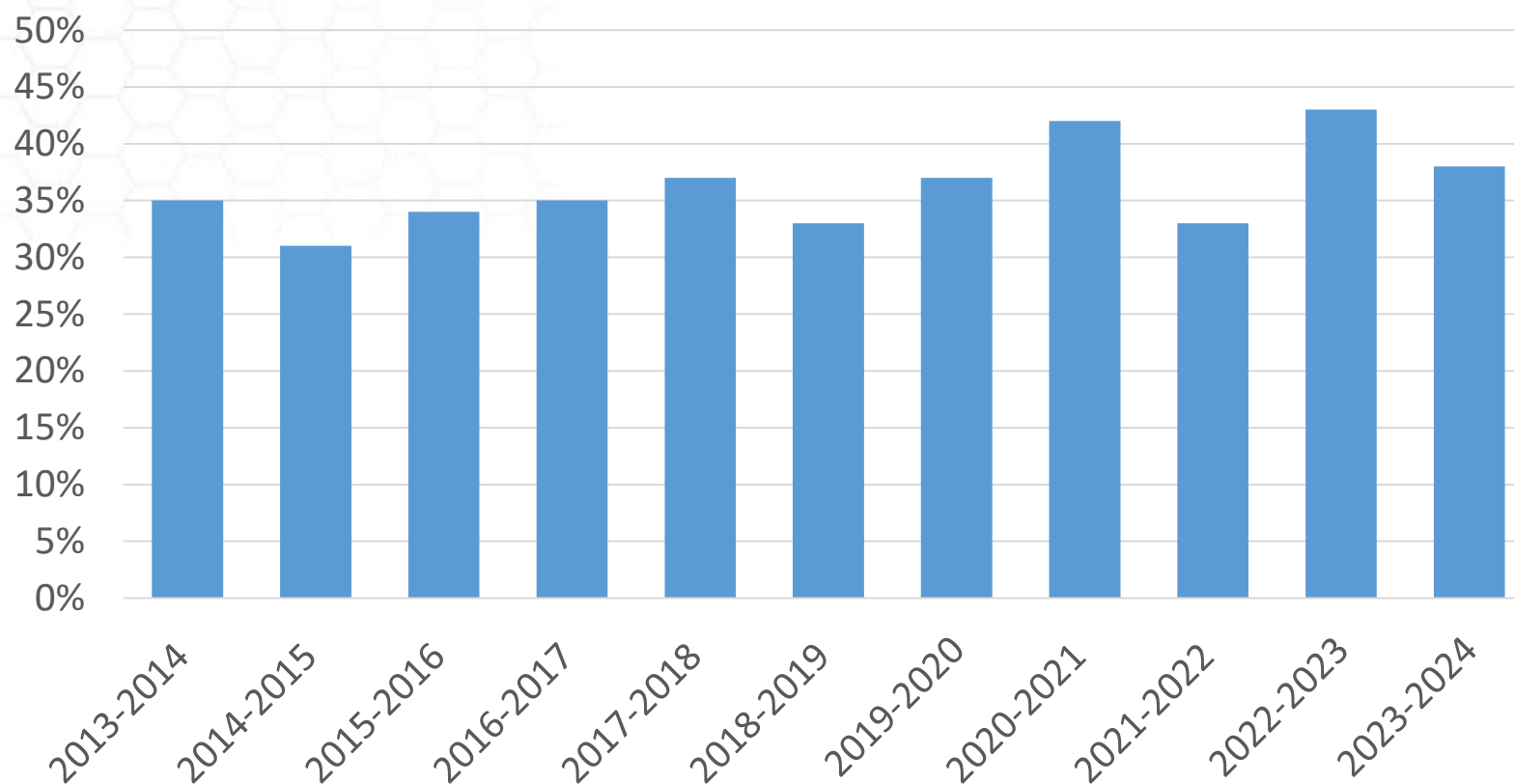
CEMAL

03 Emory University	Savio Batista dos Reis, MD	INR, Acute Stroke, Neuroimaging
08 Chicago	Michael P. McCartin, MD	Prehospital Management
11 UCLA	Mert Erdenizmenli, MD	Tenecteplase, large vessel occlusions
16 Miami	Luis Carlos Paixao, BMBCh, MSc	"No-Reflow" Phenomenon, Machine Learning
20 U. Pittsburgh	Lucas Rios Rocha, MD	LVO, cerebral hemodynamics

WAYNE

01 Case Western Reserve	Gregory States, PhD	Biomechanics and control systems
05 MUSC	Diego E. Arias, PhD	Neuromodulation, electric field modeling
10 Stanford	Sepideh Kiani Shabestari, PhD	Stroke recovery, Immune response
17 Michigan	Kazandra ("Kay") M. Rodriguez, PhD	motor learning and recovery
27 Wake Forest (Western NC)	Lorelei Johnson, PhD	Post-stroke aphasia recovery
28 MARCC (Washington University)	Ryan Bowen, PhD (PhD expected)	Brain Network Repair
29 Yale University (Southern NE)	Liqi Shu, MD	Machine learning and rehabilitation

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Post-training Survey Results on Research

Post-training Survey Results on Research

Grants Submitted as PI

2023—2024: 1 K23, 1 CTSI pilot award, 1 AHA Early faculty independence award

2022-2023: 3 K23's, 1 CTSI pilot award

2021-2022: 1 AHA grant

2020-2021: 1 K08, 2 R03's, 1 DoD, 1 F32

2019-2020: 2 K23's, 1 R21, 2 R03's, 1 R00

2017-2018: 2 K23's, 3 R01's, 2 R21's, 1 R03, 1 UG3/UH3, 2 R34's, 2 R44's

2016-2017: 1 K23, 3 R01's, 2 R21's, 1 R03, 1 L30, 2 VA grants, 1 CTSA Pilot grant

2015-2016: 2 K23's, 1 R01, 1 R21, 1 R03

2014-2015: 1 K23, 2 R01's, 1 AHA CDA

Metrics

- Mandatory attendance on Grand Rounds Webinars, Professional Development webinars, participation in Learning Communities

- Mandatory trainee presentations
  - In-person at national meeting (3)
  - Remote during a special, mentored 3-hour session (9)
  - Time slots during the Professional Development Webinar series (16)

- Other service activity to the StrokeNet Community (e.g. trainee volunteer on the Education and Training Core.)

- End of year survey: publications, grant submissions, professional appointments post-StrokeNet training

- Database kept by Jeanne Sester

Optional opportunities (available to all)

- Single observation of a Working Group meeting

- Attend StrokeNet Steering Committee Meetings (monthly)

- Track enrollment in StrokeNet trials/studies

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Brand new and recently implemented programming

- Trainee attendance at Clinical Trial/Study Executive Committee Meetings
  - CAPTIVA (2)
  - VERIFY (1)
  - I-ACQUIRE (1)

- Trainee members of Working Groups
  - Acute (2)
  - Prevention (2)
  - Rehab/Recovery (2)

Engagement of current trainees

Training Core Members	Ryan (Duke), Eklund (U Colorado)
Acute stroke Working Group	McCartin (U Chicago), Paixao (U Miami)
Prevention Working Group	Chakravarthula (U Minnesota), Ramaswamy (Columbia)
Rehab/recovery Working Group	Rodriguez (U Michigan), Shu (Yale)
CAPTIVA Exec Committee	Eklund (U Colorado), Rotta (MGH)
VERIFY Exec Committee	Shu (Yale)
I-ACQUIRE Exec Committee	Bhayana (UT Houston)

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Reminder: Deadlines

- Request for new Trainees' training plans – May
- Solicit Grand Rounds Webinar topics and speakers – May
- Survey to Trainees – June
- Final Trainee Progress report – June
- Trainee Contact form – June
- Update from prior trainees – June

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Self-directed learning opportunities (trainees, coordinators, mentors)

- https://www.nihstrokenet.org/education
  - Introduction to the Principles and Practice of Clinical Research (IPPCR) https://ocr.od.nih.gov/courses/ippcr.html
  - Ethical and Regulatory Aspects of Clinical Research https://bioethics.nih.gov/courses/ethical-regulatory-aspects.shtml | https://videocast.nih.gov/PastEvents?c=22
  - Principals of Clinical Pharmacology

    https://ocr.od.nih.gov/courses/principles-clinical-pharmacology.html