Congratulations to graduating DART Residents!

Lynneice Bowen, MD, Joseph Cheng, MD, PhD, & Leah Fryml, MD

Welcome new DART Residents!
Michael Capata, MD    Matthew Fadus, MD

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# Meet the Faculty & Staff

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<th>Name</th>
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<td>Sudie Back, PhD</td>
<td>Dr. Back is a Professor in the Department of Psychiatry. She is PI and Director of the DART Program. She specializes in post-traumatic stress disorder (PTSD) and substance use disorders (SUD).</td>
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<td>Kathleen Brady, MD, PhD</td>
<td>Dr. Brady is a Distinguished University Professor at MUSC. She is Co-PI of DART and the original PI of the program. Her specialties include SUD, PTSD, bipolar disorders, and gender differences.</td>
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<td>Sarah Book, MD</td>
<td>Dr. Book is a Professor at MUSC, board-certified psychiatrist and Co-Director of the DART program. Her areas of expertise include anxiety and addiction medicine, including alcohol and opioid use disorders.</td>
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<td>Kelly Barth, DO</td>
<td>Dr. Barth is the medical Director of the Behavioral Medical Clinic at MUSC and served as Director of MUSC’s Inpatient Addiction Unit at MUSC. She is a DART alumnus (2006). Her clinical and academic interests involve chronic pain and opioid use disorders.</td>
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<td>Nicky Thornley, MPH</td>
<td>Ms. Thornley began working with DART in 2011, and took time off to work on her Master’s in Public Health at Emory University. She returned to the DART program in 2016 looks forward to facilitating the continued growth and success of DART at MUSC.</td>
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## Welcome DART Coordinator

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<td>Emily Bristol</td>
<td>Ms. Bristol joins the DART Staff after working on a clinical trial in the Addiction Sciences Division for 3 years. She has a BA in Psychology and Spanish. Emily looks forward to bringing new insights to the team.</td>
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Michael Capata, MD received his medical degree from the Vermont College of Medicine. He graduated from the University of California, Davis with a Bachelor’s Degree in Biological Sciences. In between college and medical school, he spent three years doing research in Autism Spectrum Disorders. Dr. Capata’s clinical and research interest is in addiction psychiatry, specifically in regards to the current opioid epidemic. Dr. Karen Hartwell is his DART mentor.

Matthew Fadus, MD received a degree in Biology from Saint Joseph’s University in Philadelphia and his medical degree from Creighton University in Omaha, NE. After medical school, he completed his pediatric internship at the Children’s Hospital of Philadelphia, later joining the Psychiatry Residency Program at MUSC during his second year. Dr. Fadus was awarded a Child and Adolescent Psychiatry Fellowship from the American Psychiatric Association in 2018. His clinical and research interests include social media, eating disorders, self-harm, and suicidality among adolescents. His research will be centered around assessing adolescent social media use and screen time to determine associations with mood symptoms or suicidality. Dr. Lindsay Squeglia is his primary mentor.

Welcome to DART!
Joshua Brown, MD, PhD received his BS in Psychology from the University of Utah in 2002. After changing career paths and completing post-baccalaureate premedical coursework, he earned an MD and PhD through the Medical Scientist Training Program at the Medical College of Wisconsin in 2014. His dissertation was in the lab of Nashaat Gerges, PhD studying synaptic plasticity in vitro and its correlation with learning and memory in animal models. He joined the combined Psychiatry/Neurology residency program, at MUSC in 2014. Clinical interests include brain stimulation, consultation/liaison in psychiatry and neurology, epilepsy, and behavioral neurology/geriatric psychiatry. Research interests are centered on understanding mechanisms of TMS in the normal and depressed human brain. Dr. Mark George is his primary mentor. Drs. Leonardo Bonihla, Baron Short and Gregory Sahlem are secondary mentors.

Ebele Compean, MD, graduated with BA in Plan II Honors with a focus on Arts and Science from University of Texas in Austin in May of 2011. She then completed her medical degree at the University of Texas Health Science Center at San Antonio in May 2015 with Distinction in Education for creating a study framework for struggling first year medical students. Her interests include PTSD, addiction, and child and adolescent psychiatry. She plans to explore role of neuropeptide-Y and genetics in patients with PTSD with comorbid alcohol use disorder treated with N-acetylcysteine with Drs. Mark Hamner and Zhewu Wang as her primary mentors.

David Friedrich, MD, attended Cornell University where he graduated cum laude with a Bachelor’s Degree in Biological Engineering. He completed his medical degree at the Medical University of South Carolina, where he was elected to the Alpha Omega Alpha medical honor society. He remained at MUSC for his general adult psychiatry internship and residency training. His current clinical and research interests include treatment-resistant psychiatric illness. During his DART residency training, he will work to further optimize the use of repetitive transcranial magnetic stimulation (rTMS) in treating patients with treatment resistant mood disorders. Drs. Greg Sahlem and Baron Short are his mentors.

Sarah Oros, MD, earned her BS in Premedicine with a minor in Psychology from the University of Dayton, Ohio. She went on to graduate from the Boonshoft School of Medicine at Wright State University in 2014. She began the combined Internal Medical/Psychiatry residency at MUSC in 2014. Given her interests in combined care and education, she sought to develop a project that reached both fields. She will be working on a project to evaluate training needs and interests of primary care physicians in the area of opioid use disorder. Sarah is also interested in collaborative care, outpatient medicine, women’s health, and geriatrics. Drs. Robert Malcolm and Kelly Barth are her DART mentors.
Lynneice Bowen, MD, graduated from Florida A&M University in 1998 with a BS in Chemistry. She taught high school science for many years before choosing to pursue a career in Medicine. She completed her undergraduate medical education at Morehouse School of Medicine before beginning her general psychiatry residency at MUSC. Dr. Bowen is interested in women’s mental health, social determinants of health, and studying the implications of the changing social, medical and legal climates regarding marijuana use. She is mentored by Dr. Aimee McRae-Clark.

Joseph Cheng, MD, PhD concurrently received his MD from the College of Medicine and his PhD from the College of Graduate Studies for dissertation research in the laboratory of James Norris, PhD in the Department of Microbiology and Immunology. Prior to medical school, he earned an AB in Chemistry and AB in Chinese Language and Literature from Dartmouth College in 2001. He joined the psychiatry residency training program in 2014 after graduating from the MUSC Medical Scientist Training Program. Dr. Cheng’s clinical and research interests broadly include forensic psychiatry, geriatric psychiatry, trauma, brain stimulation, and psychopharmacology. Dr. Gregg Dwyer is his DART mentor.

Leah Fryml, MD earned her MD in 2014 from MUSC. She began to cultivate her interest in the brain stimulation technologies during her medical undergraduate training at MUSC. She began her psychiatry residency at MUSC in 2014. Cognizant of the existing gaps in available treatments that leave many patients symptomatic and unable to lead fulfilling lives in society, she sought out the mentorship of Drs. Mark George and Baron Short and worked on several projects with the Brain Stimulation Lab research group during medical school. Dr. Fryml hopes to pursue an academic medical career with a specific interest in brain stimulation for trauma-related disorders. She is mentored by Drs. Lisa McTeague, Mark George, and Baron Short.

Congratulations, Graduates!
Selected Publications


In press publications


Featured Presentations

Dr. Ebele Compean presenting her poster at the 2018 APA annual meeting.

Dr. Joseph Cheng with his poster at the 2018 APA annual meeting.

Dr. Leah Fryml (left) with Dr. Leon Cushenberry (right) who won 2nd and 1st place in the poster competition, respectively, at the 2018 SCPA annual meeting.


The Drug and Alcohol Research Training (DART) Summer Research Fellowship Program offers a 10-week, full-time position open to undergraduate, graduate and medical students interested in learning more about research. The goal of the DART Summer Fellowship is to introduce promising students to research and offer the opportunity to work closely with a research mentor and his/her investigative team. For more information, visit [www.musc.edu/dart](http://www.musc.edu/dart) or e-mail DART@musc.edu.

We are pleased to share the 2018 Cohort of DART Summer Students & Mentors

Gabriella Barry mentored by Christopher Cowen, PhD
Elizabeth Evans mentored by Carla Danielson, PhD
Caroline Fields mentored by Amanda Gilmore, PhD
Erin Gandelman mentored by Sudie Back, PhD
Carlisle Hiott mentored by Constance Guille, MD
Caitlyn Hood mentored by Erin McClure, PhD
Jack McLeod mentored by Colleen Hanlon, PhD
Jessica Norton mentored by Aimee McRae-Clark, PharmD
Kaosisochukwu Onochie mentored by Virginia Fonner, MPH, PhD
Jacqueline Phillips mentored by Lindsay Squeglia, PhD
Leanna Poole mentored by Julianne Flanagan, PhD
Victoria Ragland mentored by Mark Hamner, MD
India Robinson mentored by Marcelo Lopez, PhD
Justin Sindoni mentored by James Prisciandaro, PhD
Jonathan Stoltman mentored by Bryan Heckman, PhD
Serena Walker mentored by Elizabeth Santa Ana, PhD

Honorary DART Summer Students:
Logan Dowdle mentored by Colleen Hanlon, PhD
Amanda Robinson mentored by Bryan Tolliver, PhD MD
Dr. Nolan Williams presents

*Rapid-Acting Antidepressants: Deconstructing One & Constructing Another*

Dr. Nolan Williams has had a decade long interest in mood disorders with his first publication being a meta-analysis of long-term treatment outcomes for refractory depression (Williams, Simpson, Simpson, Nahas, 2009). His dual residencies in neurology and psychiatry were chosen with the intent of developing a unique skillset and vantage-point from which to approach the development and refinement of novel therapeutics for depression. He has specific training and clinical expertise in administering interventional psychiatric techniques. Dr. Williams completed simultaneous research and clinical fellowships in neuromodulation and human neuroscience under the tutelage of Mark George, MD. During this period of fellowship training, he acquired expertise both in treatment-resistant depression as well as in the neuromodulation methodologies. He has a specific interest in developing a mechanistic understanding of rapid-acting antidepressant therapies in order to further develop and refine circuit-based approaches for neuropsychiatric conditions. Dr. Williams graduated from the DART program in 2014.
**Weekly Seminars**

The DART Summer Fellowship Program includes a weekly seminar where speakers are invited to share their journey, career path, and area of expertise with students. Speakers represent multidisciplinary backgrounds including Psychiatry, Psychology, and Statistics.

**Tuesdays (May through July 2018)**

11:00am-1:00pm

**Drug Discovery Building | Room 312**

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**May 29th**

Jeff Korte, PhD  -  Statistics

**June 5th**

Karen Hartwell, MD  -  Establishing a Good Relationship with Your Mentor

Colleen Halliday-Boykins, PhD  -  Substance Use, Racial/Ethnic Diversity and Adolescents

**June 12th**

Thomas Lewis, MD  -  Networking in Science

**June 19th**

Thomas Lewis, MD  -  Understanding Medical Literature

**June 26th**

Sarah Book, MD  -  Scientific Abstracts

**July 3rd**

Greg Sahlem, MD  -  Putting the Rubber to the Road: Turning an Idea into a Line of Research

**July 10th**

Jenna McCauley, PhD  -  Scientific Poster Presentations

**July 17th**

Kevin Gray, MD  -  Tobacco Research

**July 25th**

Carla Danielson, PhD  -  A Research Career Path That Smells like Teen Spirit: What You Should Know About Adolescent Addiction-related Research
Research Society on Alcoholism  
41st Annual RSA Scientific Meeting  
June 16-20, 2018, San Diego, California  
https://www.xcdsystem.com/rsoa/index.cfm?ID=OjjNsB7

The 53rd Perry V. Halushka 2018 Research Day  
November 2-3, 2018, Medical University of South Carolina, Charleston, South Carolina  
http://academicdepartments.musc.edu/grad/students/curr_students/research_day/

American Academy of Addiction Psychiatry  
29th Annual AAAP Meeting  
December 6-9, 2018, Bonita Springs, Florida  
http://www.aaap.org/annual-meeting

American College of Neuropsychopharmacology  
57th Annual Meeting  
December 9-13, 2018, Hollywood, Florida  
http://acnp.org/annual-meeting/

American Association for the Advancement of Science  
2019 Annual Meeting  
February 15-19, 2019, Austin, Texas  
http://meetings.aaas.org/

Society for Research on Nicotine and Tobacco  
25th Annual Meeting  
February 20-23, 2019, San Francisco, California  
https://www.srnt.org/?page=2019_meeting

American Society of Addiction Medicine  
50th Annual Conference-Innovations in Addiction Medicine and Science  
April, 2019, Orlando, FL  
http://www.asam.org/education/live-online-cme/the-asam-annual-conference

Society of Biological Psychiatry  
74th Annual Meeting  
May 16-18, 2019, Chicago IL  
https://sobp.org/meetings/2019-annual-meeting/
The Clinical Research Loan Repayment Program is a vital component of our nation's efforts to attract health professionals to careers in clinical research. In exchange for a two-year commitment to clinical research, NIH will repay up to $35,000 per year of qualified educational debt, pay an additional 39% of the repayments to cover Federal taxes, and may reimburse state taxes that result from these payments. To participate, you must conduct clinical research for 50% or more of your total effort (average at least 20 hours per week) during each quarterly service period. The research must be funded by a domestic nonprofit or U.S. Government (Federal, state or local) entity.

Examples of DART alumnae who completed the LRP are Drs. Kelly Barth, Bryan Tolliver, & Nolan Williams. For more information, please visit http://www.lrp.nih.gov

For more information or to apply for the DART Program, visit our website

www.musc.edu/dart

Contact with any questions

Sudie Back, PhD at backs@musc.edu || Nicola Thornley at dart@musc.edu || Emily Bristol at bristole@musc.edu || 843-792-5446