TRAIN@wayne

Translational Research in Addiction and Integrative Neuroscience

Mission Statement

The mission of the TRAIN@wayne T32 is to recruit, educate, and mentor highly-capable predoctoral trainees who will create high impact in the field of addiction neuroscience. TRAIN@wayne is an interdisciplinary training program that will guide application of contemporary translational science approaches to investigate, understand, and ultimately reduce the problems of substance use disorders and co-occurring psychiatric dysfunction. To achieve these aims, TRAIN@wayne will emphasize experiential learning, 'real world' clinical observation, and individualized mentorship. Trainees will develop expertise in addiction neuroscience, utilize rigorous experimental methods, and exhibit excellence in scientific communication.

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TRAIN@wayne T32 Overview
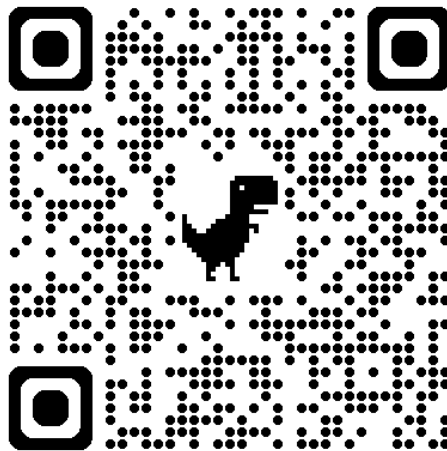
TRAIN@wayne Benefits	• Individualized training in addiction neuroscience • Prestigious recognition as a T32 scholar • Two years of tuition, stipend, and health insurance • Support for dissertation research, conference travel, and specialized research training • Grant writing training and support • Unique networking opportunities
Who Should Apply?	• MD/PhD and PhD students interested in addiction neuroscience (preclinical or clinical research) • Students with impressive records of research productivity and scholastic achievement • Students interested in careers in academia, industry, medicine, scientific communication, or similar
Who is Eligible?	• PhD students in Years 2 or 3; MD/PhD students in PhD Years 1 or 2 • US citizens or permanent residents • Good academic standing (GPA 3.5+) • Track record of research productivity (conference abstracts, manuscripts, etc.) • Enrolled in a relevant PhD program: TNP, BCN, Pharmacology, or similar
Application/Admission Timeline	• January 15th: Student nominations due • February 15th: Application materials due (below) • March: Applicant interviews • April 15th: Applicants notified of T32 admission • May: Entrants meet with T32 MPIs • August: Official T32 start date

Website: https://psychiatry.med.wayne.edu/train-at-wayne   Email: TRAIN@wayne.edu

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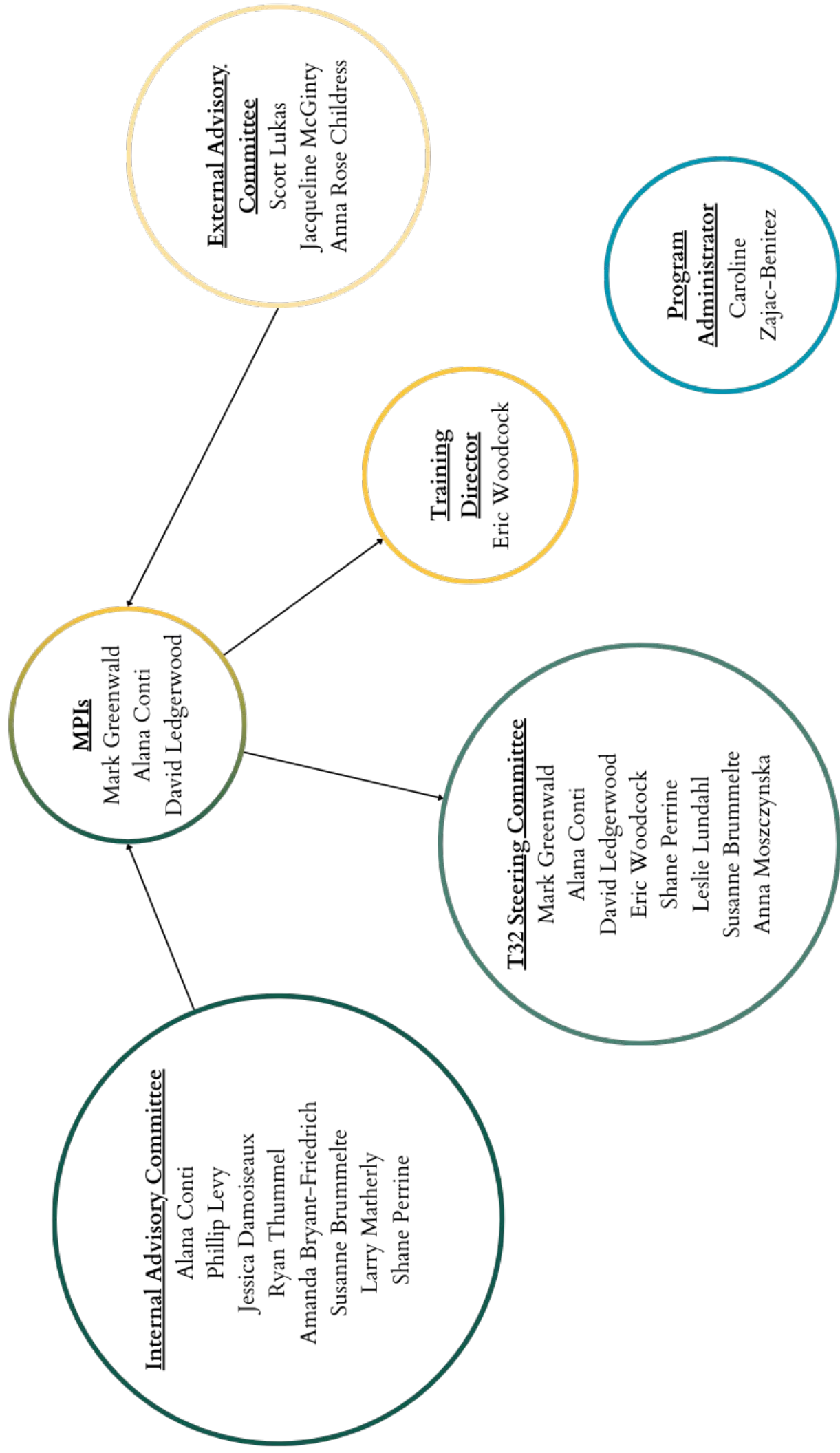|	
Application Materials **(Due February 15th via email:** **TRAIN@wayne.edu)**	- Student CV - Unofficial Graduate Transcript - Current Year IDP - Three (3) Letters of Recommendation - One-page Statement of Purpose: research interests, career goals, and possible dissertation project/committee
Evaluation Criteria	- Research Experience and Productivity (0-25 points) - Interview (0-25 points) - Recommendation Letters (0-20 points) - Statement of Purpose (0-15 points) - Individual Development Plan (0-10 points) - Other Factors (GRE, leadership activities) (0-5 points)

For more information, scan the QR code or visit our website:

https://psychiatry.med.wayne.edu/train-at-wayne

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TRAIN@wayne Team

External Advisory. Committee
Scott Lukas
Jacqueline McGinty
Anna Rose Childress

Program Administrator
Caroline Zajac–Benitez

Training Director
Eric Woodcock

MPIs
Mark Greenwald
Alana Conti
David Ledgerwood

T32 Steering Committee
Mark Greenwald
Alana Conti
David Ledgerwood
Eric Woodcock
Shane Perrine
Leslie Lundahl
Susanne Brummelte
Anna Moszczynska

Internal Advisory Committee
Alana Conti
Phillip Levy
Jessica Damoiseaux
Ryan Thummel
Amanda Bryant–Friedrich
Susanne Brummelte
Larry Matherly
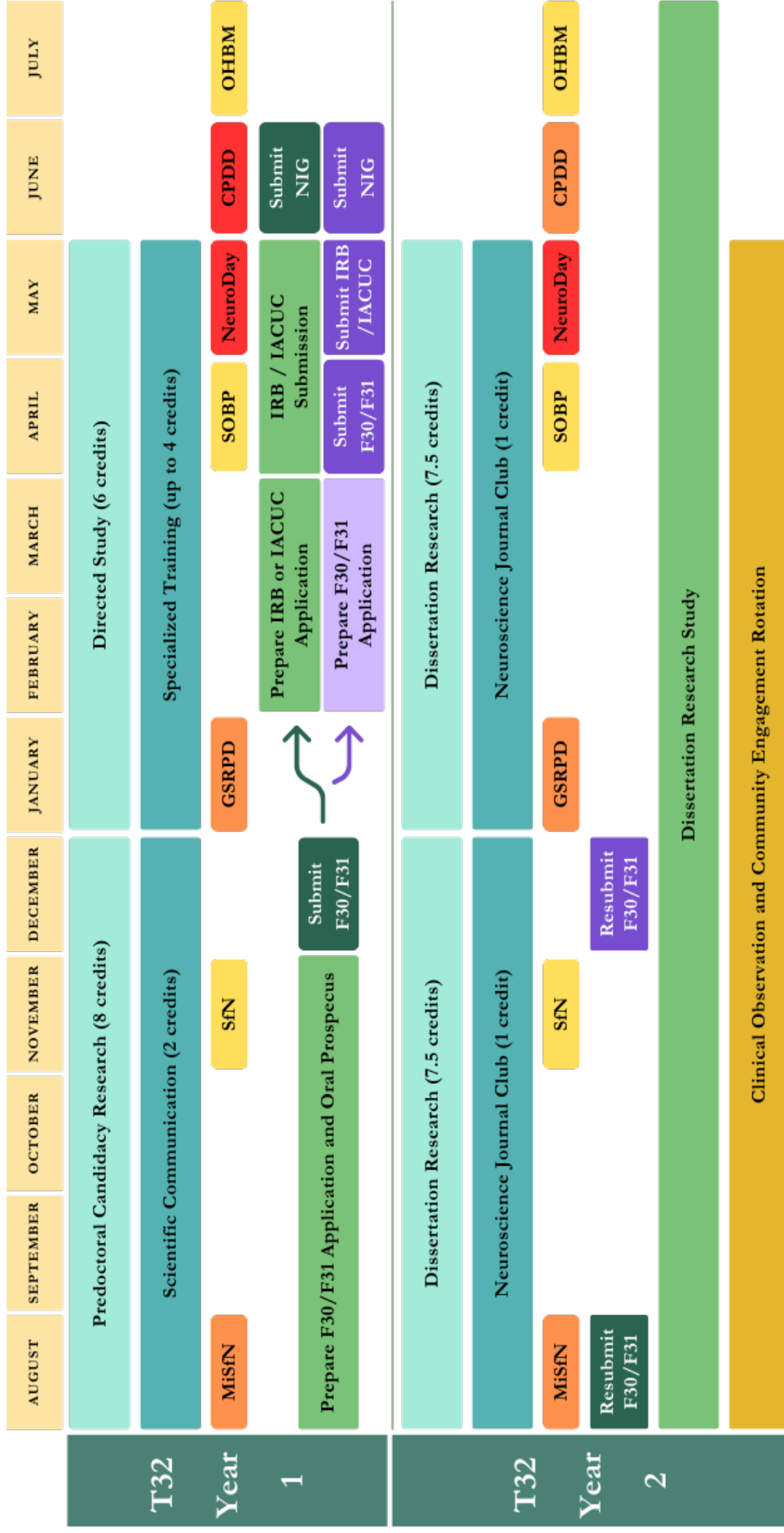Shane Perrine

Training Benefits

Dissertation Research	T32 Year 1: Up to $5,000 as WSU Research Core Voucher T32 Year 2: Up to $13,000 as WSU Research Core Voucher
External Training	Up to $2,000 to attend one specialized external training course, workshop, or conference (e.g., Cold Spring Harbor or NIH course)
Conference Travel	Up to $4,750 per year to present research at national scientific meetings
Standing F30/F31 Panel	Access to an internal, standing mock review committee to provide rapid F30/F31 application feedback
NeuroDay Symposium	Leadership role in the Annual NeuroDay symposium, and lunch with External Advisory Committee members during their biannual visit to WSU
CPDD Meeting	Attendance at the College on Problems of Drug Dependence (CPDD) meeting accompanied by TRAIN@wayne MPIs, as well as Grant Writing workshop, Early Career Networking, and 'Brunch with Champions' events
Individualized Clinical Experiences	Selection from a 'menu' of clinical observation and community engagement experiences to foster understanding of addiction treatment processes and appreciation for the impact of addiction in the local community
Informal Faculty Network	Informal 'brown bag' lunches with WSU faculty (who are not affiliated with TRAIN@wayne) to discuss science-adjacent topics, e.g., work-life balance, academia vs. industry, life after graduate school, etc.
Annual T32 Forum	An informal luncheon each Fall for T32 trainees to provide feedback regarding the T32 training plan, faculty mentors, and training barriers
Preferential Enrollment	Preferential enrollment in "Reproducible and Responsible Conduct of Addiction Research" course

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TRAINING TIMELINE

Months: AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY

T32 Year 1
- Predoctoral Candidacy Research (8 credits)
- Directed Study (6 credits)
- Scientific Communication (2 credits)
- Specialized Training (up to 4 credits)
- Conferences: MiSfN, SfN, GSRPD, SOBP, NeuroDay, CPDD, OHBM
- Prepare F30/F31 Application and Oral Prospecus
- Submit F30/F31
- Prepare IRB or IACUC Application
- Prepare F30/F31 Application
- IRB / IACUC Submission
- Submit F30/F31
- Submit IRB /IACUC
- Submit NIG
- Submit IRB /IACUC
- Submit NIG

T32 Year 2
- Dissertation Research (7.5 credits)
- Dissertation Research (7.5 credits)
- Neuroscience Journal Club (1 credit)
- Neuroscience Journal Club (1 credit)
- Conferences: MiSfN, SfN, GSRPD, SOBP, NeuroDay, CPDD, OHBM
- Resubmit F30/F31
- Resubmit F30/F31
- Dissertation Research Study
- Clinical Observation and Community Engagement Rotation

LEGEND
- Required Conference
- Encouraged Conference
- Optional Conference
- Encouraged Timeline
- Optional Timeline
- Course Work

- OHBM = Organization for Human Brain Mapping
- MiSfN = Michigan Society for Neuroscience
- SfN = Society for Neuroscience
- GSRPD = Graduate Student Research Presentation Day
- SOBP = Society for Biological Psychiatry
- CPDD = College on Problems of Drug Dependence
- NIG = New Investigator Grant Application

Clinical Observation and Community Engagement Rotation

1. **Goal:** Learn about evidence-based pharmacological and behavioral treatments for substance use disorders and how addiction neuroscience research can lead to new and/or improved therapies.

2. **Expectation:** T32 trainees will work with Dr. Ledgerwood to develop an individualized plan to complete ~100 hours of clinical observation and community engagement (~3hr/wk during academic year) typically in PhD Year 4 (for MD/PhD students: Year 3).

3. **Evaluation:** Upon completion of their hours, T32 trainees will draft a one-page summary of their observation and engagement activities, reflect on knowledge gained, and describe how these experiences will inform their research moving forward. Students will also complete surveys rating their experiences and provide feedback to Dr. Ledgerwood.

Clinical Observation and didactic training in these settings...
1. **The Tolan Park Research Clinic,** a WSU-based outpatient program that offers medications for opioid use disorder as well as psychotherapy
2. **Maplegrove Center**, a Henry Ford Health System-based addiction treatment facility that offers 24-hour residential care, detoxification, medication-assisted treatment, individual and group therapy, and family support programs
3. **Quality Behavioral Health**, a private facility that offers residential care, detoxification, medication-assisted treatment, and outpatient therapy including self-help groups (e.g., Alcoholics Anonymous, Narcotics Anonymous)
4. **Detroit Medical Center,** an inpatient addiction medicine consultation service that offers supervised detoxification and rapid medication induction treatment
5. **WSU Infectious Disease Clinic**, a WSU-based outpatient program treats patients with infectious diseases (e.g., HIV, HCV) which often co-occur with substance use disorders
During your Clinical Observation, you will…
• Shadow clinicians and train in clinical interviews, assessments, and patient intakes • Administer semi-structured qualitative clinical interviews to volunteers in recovery • Engage individuals with lived experience in round-table discussions about addiction

Community Engagement in one of these tracks…
1. **Drug Policy/Advocacy:** Volunteer with SciPol to write policy briefs, op-eds for local media outlets, or organize community-based panel discussions.
2. **Community Medicine:** Volunteer with 'Detroit vs. Addiction' and engage in harm reduction practices in the local community (e.g., distribution of naloxone kits)
3. **Youth Education:** Volunteer at Detroit-area public high schools to engage students in discussions about neuroscience, drug use, and addiction.

Application Process

Criteria to Apply:

- US citizen (or permanent resident) interested in addiction neuroscience research
- Good academic standing (GPA 3.5+) in a relevant PhD program (e.g., Psych, Neuro, etc.)
- Track-record of research productivity (e.g., conference abstracts and/or manuscripts)
- Primary or secondary PhD mentor is a TRAIN@wayne faculty preceptor (page 10)

Required Application Materials:

- Curriculum Vitae (CV)
- Graduate transcript (unofficial)
- Three (3) letters of recommendation (from any mentor; do not need to be T32 specific)
- Individual development plan (IDP; current year)
- One-page Statement of Purpose including research interests, career goals, and description of possible dissertation research project/committee

Application Instructions:

1. Faculty nominations due January 15th via email: TRAIN@wayne.edu
2. Application materials due February 15th via email: TRAIN@wayne.edu

Application Timeline	Deadline
Faculty Nominations	January 15th
Application Materials	February 15th
Applicant Interviews	March
Applicants Notified of T32 Selection	April 15th

If admitted...

- May – Meet with TRAIN@wayne MPIs to discuss individualized training plan
- June – Complete "Reproducible and Responsible Conduct of Addiction Research" course
- August – Official start of T32 support

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TRAIN@wayne Directory

Principal Investigators

1. Mark Greenwald, Professor, Dept. of Psychiatry and Behavioral Neurosciences
2. Alana Conti, Professor, Dept. of Psychiatry and Behavioral Neurosciences
3. David Ledgerwood, Professor, Dept. of Psychiatry and Behavioral Neurosciences

Training Director

1. Eric Woodcock, Assistant Professor, Dept. of Psychiatry and Behavioral Neurosciences

Program Administrator

1. Caroline Zajac-Benitez, Dept. of Psychiatry and Behavioral Neurosciences

Faculty Preceptors

1. Mark Greenwald, Professor, Dept. of Psychiatry and Behavioral Neurosciences
2. Alana Conti, Professor, Dept. of Psychiatry and Behavioral Neurosciences
3. David Ledgerwood, Professor, Dept. of Psychiatry and Behavioral Neurosciences
4. Leslie Lundahl, Professor, Dept. of Psychiatry and Behavioral Neurosciences
5. Shane Perrine, Associate Professor, Dept. of Psychiatry and Behavioral Neurosciences
6. Eric Woodcock, Assistant Professor, Dept. of Psychiatry and Behavioral Neurosciences
7. Susanne Brummelte, Associate Professor, Dept. of Psychology
8. Anna Moszczynska, Associate Professor, Dept. of Pharmacy & Health Science
9. Hilary Marusak, Associate Professor, Dept. of Psychiatry and Behavioral Neurosciences
10. Christine Rabinak, Professor, Dept. of Pharmacy Practice
11. Tanja Jovanovic, Professor, Dept. of Psychiatry and Behavioral Neurosciences
12. Vaibhav Diwadkar, Professor, Dept. of Psychiatry and Behavioral Neurosciences
13. Jeffrey Stanley, Professor, Dept. of Psychiatry and Behavioral Neurosciences
14. Bruce Berkowitz, Professor, Dept. of Ophthalmology, Visual and Anatomical Sciences
15. Mariana Angoa-Perez, Assistant Professor, Dept. of Physiology
16. Ana Daugherty, Associate Professor, Dept. of Psychology

Steering Committee

1. Mark Greenwald, Professor, Dept. of Psychiatry and Behavioral Neurosciences
2. Alana Conti, Professor, Dept. of Psychiatry and Behavioral Neurosciences
3. David Ledgerwood, Professor, Dept. of Psychiatry and Behavioral Neurosciences
4. Leslie Lundahl, Professor, Dept. of Psychiatry and Behavioral Neurosciences

5. Shane Perrine, Associate Professor, Dept. of Psychiatry and Behavioral Neurosciences
6. Eric Woodcock, Assistant Professor, Dept. of Psychiatry and Behavioral Neurosciences
7. Susanne Brummelte, Associate Professor, Dept. of Psychology
8. Anna Moszczynska, Associate Professor, Dept. of Pharmacy & Health Science

Internal Advisory Committee

1. Alana Conti, Professor, Dept. of Psychiatry and Behavioral Neurosciences
2. Phillip Levy, Professor, Dept. of Emergency Medicine
3. Jessica Damoiseaux, Associate Professor, Institute of Gerontology
4. Ryan Thummel, Associate Professor, Dept. of Ophthalmology, Visual and Anatomical Sciences
5. Amanda Bryant-Friedrich, Professor, Dept. of Pharmaceutical Sciences
6. Susanne Brummelte, Associate Professor, Dept. of Psychology
7. Larry Matherly, Professor, Dept. of Oncology
8. Shane Perrine, Associate Professor, Dept. of Psychiatry and Behavioral Neurosciences

External Advisory Committee

1. Jaqueline McGinty, T32 Director (DA007288), Medical University of South Carolina
2. Anna Rose Childress, T32 Director (DA028874), University of Pennsylvania
3. Scott Lukas, T32 Director (DA015036), Harvard University