

NITRO - William's Lab Alumni

1.19.2021

ACADEMIC STAFF:

1. Jared Ness (2014-2020, Research Intern)
2. Joseph Novello (2014-2018, Research Intern)
3. Jane Pisaniello (2015-2019, Research Intern)
4. Brian Gosink (2018-2020, Research Intern)

POST-DOCTORAL FELLOWS:

1. Kezhou Liu, PhD (2011-2012)
microECoG Characterization of a Chronic Pain Model
Current Position: Assistant Professor
College of Life Information Science
Hangzhou Dianzi University
2. Yu Huang, PhD (2011-2013)
Cancer Stem Cell Microfluidics
Current Position: Scientist
Methodist Hospital Research Institute, Houston TX
3. Pedro Resto, PhD (2011-2012)
Inertia Based microfluidic Flow
Current Position: Assistant Professor, University of Puerto Rico
4. Corinne Esquibel, PhD (2012-2017)
Intravital imaging of implant dynamics
5. Dong-Hyun Baek, PhD (2014-2017)
Transparent electronics for neural interface applications

DOCTORAL STUDENTS:

1. Yu Huang (2007-2011, PhD in Materials Science: **Defended September 2011**)
BioMEMS Approaches for In Vivo Neural Guidance
Current Position: Scientist, Methodist Hospital Research Institute, Houston TX
2. Pedro Resto (2006-2012, Materials Science: **Defended, January 2012**)
High Speed Micro-Fluidic Exchange Systems for Neuroscience Applications
Current Position: Assistant Professor, University of Puerto Rico
• Graduate Engineering Research Scholars Fellowship (2005-2007)
3. Sanitta Thongpang (2008-2012, Biomedical Engineering: **Defended, June 2012**)
Thin-film MEMS for Interfacing with the Cerebral Cortex
Current Position: Assistant Professor, Biomedical Engineering Department
Mahidol University, Thailand
• Royal Thai Fellowship (2008-2012)
4. Steve Hart (2009-2013, Physics: **Defended, July 2013**)
Competing substrate and soluble factors influencing axon guidance
Current Position: Assistant Professor, University of Dubuque

5. Leo Walton (2007-2014, Neuroscience Training Program, Received Masters Degree)
Multisensory Feedback to Drive Plasticity in Brain-Computer Interfaces.
• Clinical Neuroengineering Training Program Fellowship (2007-2009)
6. Thomas Richner (2008-2014, Biomedical Engineering: **Defended, June 2014**)
Real-time Measurement and Modeling of Astro-Glial Reactions
Current Position: Postdoctoral Fellow, University of Washington
• Clinical Neuroengineering Training Program Fellowship (2008-2010)
7. Amelia Schendel (2009-2014, Biomedical Engineering: **Defended March 2014**)
Multimodal Neural Sensing for Brain-Computer Interface Applications
Current Position: Medtronic Inc., Minneapolis MN
• NIH T32 Fellowship (2012-2014)
8. Kevin Cheng (2009-2016, Biomedical Engineering: **Defended December 2016**)
Microglia responses to blue light

MASTERS STUDENTS SUPERVISED:

1. Brad Lindevig (2011-2013, Biomedical Engineering)
Microfluidic approaches to cooling the cortical surface.
2. James Mott (2012-2013, Biomedical Engineering)
Optical systems for spatial excitation of neural cells
3. Sherly Bellevue (2012-2014, Materials Science)
In vitro modulation of glial function through substrate patterning.
• Graduate Engineering Research Scholars Fellowship (2012-2014)
4. Michael Nonte (2013-2014, Biomedical Engineering)
Impedance characterization of clinical stimulating electrodes
5. Jared Ness (2014, Biomedical Engineering)
Characterization of transparent electrodes for chronic in vivo imaging.
6. Joseph Novello (2014, Biomedical Engineering)
In vivo imaging of peripheral nerve injury and repair.
7. Lok 'Denise' Wong (2014-2015, Biomedical Engineering)
Microscale patterning of neural guidance features using ultrasonic printing.
6. Mohammed Hayat (2016-2017, Biomedical Engineering)
MicroECoG benchtop testing
7. Haley Knapp (2016-2017, Biomedical Engineering)
Microfluids work and neuronal cell culture
8. Sam Lines (2016-2017, Biomedical Engineering)
Electrophysiological coding and testing in neural implant models
9. Adam Vesole (2016-2017, Biomedical Engineering)
Electrophysiological coding and testing in neural implant models
10. Sarah Brodnick (2017-2019, Comparative Biomedical Sciences)
In Vivo Imaging of Vagus Nerve Stimulation on the Glymphatic System
11. Rachel Tong (2018-2019, Biomedical Engineering)
Development of surgical autodrilling machine

UNDERGRADUATE RESEARCHERS SUPERVISED:

1. Brian Mogen (2008-present, Biomedical Engineering)

- High Speed Micro-Fluidic Exchange*
 • UW Hilldale Fellowship for Undergraduate Research
2. Nate Cira (2008-present, Biomedical Engineering)
Investigating the Marangoni Effect in Microfluidic Droplets
 2. Michael Kapitz (2010-2013, Paid Student Worker- Husbandry and Animal Care)
 3. Thomas Bernath (2011-present, Mechanical Engineering)
Brain Slice Microfluidics
 4. James Mott (2011-2013, Biomedical Engineering)
Optogenetic Instrumentation
 5. Megan Braaten (2011-2012, Paid Student Worker- Husbandry and Animal Care)
 6. Paige Bostrom (2012-2013, Biomedical Engineering)
In Vivo Cranial Window Imaging
 7. Chris Kline (2012-2013, Electrical Engineering)
Automated In Vitro Optogenetic Instrumentation
 8. Mohammed Hayat (2012-2016, Biomedical Engineering)
Chronic Peripheral Nerve Window Imaging Interface
 9. Kelley Korinek (2012-present, Paid Student Worker- Husbandry and Animal Care)
Post-Operative Recovery of Research Animals
 10. Scott Schultz (2012-2014, Biomedical Engineering)
Electrophysiological coding and testing in neural implant models
 11. Aaron Ganske (2013-2014, School of Business)
Volunteer, Office work
 12. Haley Knapp (2014-2016, Biomedical Engineering)
Microfluids work and neuronal cell culture
 13. Sam Lines (2014-2016, Biomedical Engineering)
Electrophysiological coding and testing in neural implant models
 14. Adam Vesole (2014-2016, Biomedical Engineering)
Electrophysiological coding and testing in neural implant models
 16. Shannon Sullivan (2016-2018, Biomedical Engineering)
Post-Operative Recovery of Epilepsy Model Research Animals
 17. Rachel Tong (2016-2018, Biomedical Engineering)
3D production of in vivo implants
 18. Hunter Higby (2016-2019, Biomedical Engineering)
Graphene array failure analysis
 19. Liddy Whritenhour (2017-2018, Biomedical Engineering)
Glymphatic system imaging
 20. Stephan Blanz (2018-2019, Biomedical Engineering)
Glymphatic system imaging

CO-MENTORED BY WILLIAMS LAB:

1. Sahil Kapur (2012-2013, Research Year, UW Plastics Surgery Residency)
2. Christopher Oem (2011-2013, Research Experience for Middleton High School)
3. Ryan Baumgartner (2012 to 2013, Collaboration with Ramin Pashaie at the University of WI- Milwaukee)
DMD and laser pattern coupling technology
4. Sam Shay (2012 to 2014, Research Experience for Mount Horeb High School)
5. Seth Frye (2013 to 2014, Collaboration with Ramin Pashaie at the University of WI- Milwaukee)
Vascular imaging around neural interfaces with Optical Coherence Tomography

6. Farid Atry (2013 to present, Collaboration with Ramin Pashaie at the University of WI- Milwaukee)
Vascular imaging around neural interfaces with Optical Coherence Tomography
7. Anna Moldyz (2014, Shapiro Summer Research Program Scholarship)
Peripheral nerve window imaging
8. Agnes Resto (2014, SURE-REU Summer Research Program)
9. Keisha Castillo (2014, SURE-REU Summer Research Program)
10. Eye Kimtan (2013-2014, Mahidol University, Bangkok Thailand Research Undergraduate/Masters Experience at UW Madison)
11. Jiyaporn (Kam) Thupmongkol (2013-2014, Mahidol University, Bangkok Thailand Undergraduate/Masters Research Experience at UW Madison)
12. Thithawat Trakoolwilaiwan (2014, Mahidol University, Bangkok Thailand Undergraduate Research Experience at UW Madison)
13. Jeranan (Nette) Boonruangkun (2014, Mahidol University, Bangkok Thailand Undergraduate Research Experience at UW Madison)
14. Rex Chin-Hao Chen (2015 to 2019), Collaboration with Ramin Pashaie at the University of WI- Milwaukee)
Vascular imaging around neural interfaces with Optical Coherence Tomography
15. David Ruhl (2015-2017), doctoral student, Collaboration with Edward Chapman's laboratory, Department of Neuroscience at UW Madison)
Micro-ECoG recording of epileptic activity with a novel epilepsy model