

## **Angela M. Mabb**

U.S. Citizen | | amabb@gsu.edu  
Georgia State University  
100 Piedmont Ave., SE  
Neuroscience Institute/Center for Behavioral Neuroscience  
Atlanta, GA 30303, USA

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### **EDUCATION**

**Ph.D. Molecular and Cellular Pharmacology, 2007**

University of Wisconsin, Madison, WI

**Bachelor of Science with Great Distinction: Dual Major; Chemistry and Bio-Molecular Science, 2002**

Clarkson University, Potsdam, NY

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### **PROFESSIONAL EXPERIENCE**

**Georgia State University, Atlanta, GA. 2016 - Present**

*Assistant Professor*

Second Century Initiative (2CI) Scholar

Neuroscience Institute, Center for Behavioral Neuroscience

**University of North Carolina, Chapel Hill, NC. 2011 - 2016**

*Postdoctoral fellow, UNC Cell Biology and Physiology*

Laboratories of Dr. Ben Philpot and Dr. Mark Zylka

**Duke University, Durham, NC. 2007 - 2011**

*Postdoctoral fellow, Duke Neurobiology/Howard Hughes Medical Institute*

Laboratory of Dr. Michael Ehlers

**University of Wisconsin, Madison, WI. 2002 - 2007**

*Doctoral research, Department of Molecular and Cellular Pharmacology*

Laboratory of Dr. Shigeki Miyamoto

**University of Wisconsin, Madison, WI. 2002**

*Graduate Rotation, Department of Molecular and Cellular Pharmacology*

Laboratory of Dr. Richard Burgess

**University of Wisconsin, Madison, WI. 2002**

*Graduate Rotation, Department of Molecular and Cellular Pharmacology*

Laboratory of Dr. Emery Bresnick

**University of Wisconsin, Madison, WI. 2002**

*Graduate Rotation, Department of Molecular and Cellular Pharmacology*

Laboratory of Dr. Randall Tibbetts

**Clarkson University Department of Chemistry, Potsdam, NY. 2000 - 2002**

*Undergraduate Thesis Research, Department of Chemistry*

Laboratory of Dr. Linda Luck

**Bristol-Myers Squibb (BMS) Pharmaceutical Research Institute, Hopewell, NJ. 2001**

*Internship, Department of Metabolic Research*

**University of Connecticut Department of Chemistry REU Program, Storrs, CT. 2000**

## PEER REVIEWED PUBLICATIONS

Graduate students (+), undergraduate students (++)

# = Co-corresponding Author, \* = First author, 9 = Lead/Senior Author

1. Ghane MA<sup>++</sup>, Yakout DW<sup>++</sup>, Mabb AM. A high-content assay for monitoring AMPA receptor trafficking. *J Vis Exp*. 2019 Jan 28;(143). doi: 10.3791/59048.
2. Wall MJ, Collins DR, Chery SL<sup>++</sup>, Allen ZD, Pastuzyn ED, George AJ<sup>+</sup>, Nikolova VD, Moy SS, Philpot BD, Shepherd JD, Müller J, Ehlers MD, Mabb AM<sup>#9</sup>, Corrêa SAL<sup>#</sup>. The temporal dynamics of Arc expression regulate cognitive flexibility. *Neuron*. 2018 May 24. pii: S0896-6273(18)30384-2. doi: 10.1016/j.neuron.2018.05.012. This paper was highlighted on over 30 international news websites.
3. George AJ<sup>+</sup>, Hoffiz YC<sup>+</sup>, Charles AJ<sup>++</sup>, Zhu Y, and Mabb AM. A comprehensive atlas of E3 ubiquitin ligase mutations in neurological disorders. *Frontiers in Genetics*. 2018 Feb 14;9:29. doi: 10.3389/fgene.2018.00029. eCollection 2018. Invited Review.
4. Mabb AM<sup>#</sup> and Ehlers MD<sup>#</sup>. Arc ubiquitination in synaptic plasticity. *Seminars in Cell and Developmental Biology*. 2018 May;77:10-16. doi: 10.1016/j.semcd.2017.09.009. Epub 2017 Sep 7. Invited Review.
5. Mabb AM, Simon JM, King IF, Lee HM, An LK, Philpot BD, Zylka MJ. Topoisomerase 1 regulates gene expression in neurons through cleavage complex-dependent and -independent mechanisms. *PLOS ONE*. 2016. 11(5): e0156439. Doi:10.1371/journal.pone.0156439. eCollection 2016.
6. Niedringhaus M, Dumitru R, Mabb AM, Wang Y, Philpot BD, Allbritton NL, Taylor AM. Transferable neuronal mini-cultures to accelerate screening in primary and induced pluripotent stem cell-derived neurons. *Scientific Reports*. 2015 Feb 10;5:8353.
7. Mabb AM, Kullmann PH, Twomey MA, Miriyala J, Philpot BD, Zylka MJ. Topoisomerase 1 inhibition reversibly impairs synaptic function. *Proceedings of the National Academy of Sciences*. 2014 Dec 2;111(48):17290-5.
8. Mabb AM\*, Je HS\*, Wall MJ, Robinson CG, Larsen RS, Qiang Y, Corrêa SA, and Ehlers MD. Triad3A regulates synaptic strength by ubiquitination of Arc. *Neuron*. 2014 Jun 18;82(6):1299-316.
9. King IF, Yandava CN, Mabb AM, Hsiao JS, Huang HS, Pearson BL, Calabrese JM, Starmer J, Parker JS, Magnuson T, Chamberlain SJ, Philpot BD, Zylka MJ. Topoisomerases facilitate transcription of long genes linked to autism. *Nature*. 2013 Sep 5;501(7465):58-62.
10. Peixoto RT, Kunz PA, Kwon H, Mabb AM, Sabatini BL, Philpot BD, Ehlers MD. Trans-synaptic signaling by activity-dependent cleavage of Neuroligin-1. *Neuron*. 2012 Oct;76(2):396-409. Featured cover article.
11. Huang H-S\*, Allen JA\*, Mabb AM, King IF, Miriyala JL, Taylor-Blake B, Sciaky N, Dutton JW, Lee H-M, Chen X, Jin J, Bridges AS, Zylka MJ, Roth BL, Philpot BD. Topoisomerase inhibitors unsilence the dormant allele of Ube3a in neurons. *Nature*. 2011 Dec 21;481(7380):185-9.
12. Lee MH, Mabb AM, Gill GB, Yeh ET, and Miyamoto S. NF-κB Induction of the SUMO Protease SENP2: A negative feedback loop to attenuate cell survival response to genotoxic stress. *Molecular Cell*. 2011 Jul 22;43(2):180-91.
13. Yang Y, Xia F, Hermance N, Mabb A, Simonson S, Morrissey S, Gandhi P, Munson M, Miyamoto S, Kelliher MA. A cytosolic ATM/NEMO/RIP1 complex recruits TAK1 to mediate the NF-κB and p38 MAP kinase/MAPKAP-2 responses to DNA damage. *Molecular and Cellular Biology*. 2011 Jul;31(14):2774-86.

14. **Mabb AM\***, Judson MC\*, Zylka MJ, Philpot BD. Angelman Syndrome: Insights into Genomic Imprinting and Neurodevelopmental Phenotypes. *Trends in Neuroscience*. 2011 Jun;34(6):293-303. Review. *Featured cover article*.
  15. **Mabb AM** and Ehlers MD. Ubiquitination in postsynaptic function and plasticity. *Annual Review of Cell and Developmental Biology*. 2010 Nov 10;26:179-210.
  16. **Mabb AM** and Miyamoto S. SUMO and NF- $\kappa$ B ties. *Cell Mol Life Sci*. 2007 Aug;64(15):1979-96. Review.
  17. **Mabb AM**, Wuerzberger-Davis SM, Miyamoto S. PIASy mediates NEMO sumoylation and NF- $\kappa$ B activation in response to genotoxic stress. *Nature Cell Biology*. 2006 Sep;8(9):986-93.
  18. Wu ZH, **Mabb A**, Miyamoto S. PIDD: A Switch Hitter. *Cell*. 2005 Dec 16;123(6):980-2.
  19. Shi Y, Venkataraman SL, Dodson GE, **Mabb AM**, LeBlanc S, Tibbetts RS. Direct regulation of CREB transcriptional activity by ATM in response to genotoxic stress. *Proceedings of the National Academy of Sciences*. 2004 Apr 20;101(16):5898-903.
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#### EXTRAMURAL FUNDING

- Whitehall Foundation (Grant 2017-05-35), PI. 08/01/2017 – 07/31/2020 (\$216,668 direct costs, 3 years)
  - Role of immediate early gene turnover in learning-related behaviors

#### INTERNAL FUNDING

- Brains & Behavior Seed Grant, PI. 07/01/2019 – 06/30/2020 (\$18,769 direct costs, 1 year)
  - Development, validation, and use of a photoconvertible sensor for illuminating rodent neural ensembles in principle pyramidal excitatory neurons
- Cleon C. Arrington Research Initiation Grant Program (RIG-93), PI. 07/01/2018 – 06/30/2019 (\$20,000 direct costs, 1 year)
  - Generation of a pre-clinical model for neurological disorders

#### TECHNOLOGY AWARDS

- Rare Genomics Institute, BeHEARD Rare Disease Science Challenge, Technology Prize. 06/23/2017 (Valued at \$2,408)
  - Receipt of mice from Jackson Laboratories for Gordon Holmes project

#### PREVIOUS FUNDING

- Joseph E. Wagstaff Postdoctoral Fellowship. 2013 - 2015
  - NIH NINDS, National Research Service Award (NRSA) F32-NS067712. 2010 - 2012
  - Ruth K. Broad Fellowship. 2009 - 2010
  - NIH sponsored postdoctoral fellowship in the Fundamental & Translational Neuroscience Program T32-NS051156. 2007 - 2008
  - Department of Defense Breast Cancer Research Program Predoctoral Traineeship Award BC044529. 2005 - 2007
  - MCP NIH sponsored training grant T32-GM008688. 2002 - 2004
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#### PROFESSIONAL EXPERIENCE

##### Grant Review Panels

- Alzheimer's Association Research Grant (AARG)-NTF program. 2018, 2019
- National Science Foundation Graduate Research Fellowship Program, reviewer. 2018, 2019

- Alzheimer's Association Research Grant (AARG) program. 2018
- Alzheimer's Association Research Fellowship (AARF) program. 2016, 2017
- External Evaluator for E-Rare funding initiative. 2014

#### Journal Reviewer

- *Ad hoc* reviewer for the following scientific journals
  - Nature Reviews Neuroscience
  - Molecular Neurobiology
  - JoVE (Journal of Visualized Experiments)
  - Journal of Neurophysiology
  - Scientific Reports
  - Seminars in Cell & Developmental Biology
  - Journal of Neuroimmunology
  - PLOS ONE
  - Frontiers in Synaptic Neuroscience

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#### AWARDS

- NIH sponsored Keystone Symposia Scholarship. 2006
- Vilas Travel Grant Award. 2005
- Lovenhart Scholarship. 2002
- Northern New York Section of the American Chemical Society Award. 2002
- Member of Phi Delta Epsilon, Treasurer. 2001 - 2002
- Clarkson University Leadership Award. 1998 – 2002

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#### INVITED LECTURES

1. **Erasmus MC Department of Neuroscience Seminar Series.** Rotterdam, Netherlands. December 3<sup>rd</sup>, 2018  
Role of Protein Ubiquitination in Neurological Disease and Cognition
2. **Molecular Biosciences Interest Group, Kennesaw State University.** Kennesaw, GA. April 14<sup>th</sup>, 2017  
Role of the Ubiquitin Pathway in Neurological Disease and Cognition
3. **Center for Diagnostics and Therapeutics, Georgia State University.** Atlanta, GA. March 21<sup>st</sup>, 2017  
Establishing a Disease Based Ubiquitin Ligase Code of the Neuronal Proteome
4. **Biology Graduate Seminar Series, Georgia State University.** Atlanta, GA. January 20<sup>th</sup>, 2017  
Role of the Ubiquitin Pathway in Neurological Disease and Cognition
5. **Genzyme Framingham, MA.** February 17<sup>th</sup>, 2012  
Development of Angelman Syndrome Therapeutics

#### STUDENT INVITED LECTURES

1. **Emory University Frontiers in Neuroscience Seminar Series.** January 25<sup>th</sup>, 2019  
Role of protein ubiquitination in neurological disease and cognition
2. **Georgia State University American Medical Student Association (AMSA).** October 2<sup>nd</sup>, 2018  
Mechanisms and circuits that control cognitive flexibility
3. **Georgia State University Beta-Beta-Beta Biological Honor Society.** October 13<sup>th</sup>, 2016  
Navigating the Academic Landscape

#### MEETING PRESENTATIONS

1. 16<sup>th</sup> Annual Discovery on Target, CNS and Neurodegenerative Targets, Boston MA. September 26<sup>th</sup>-27<sup>th</sup>, 2018  
“Mechanistic insights into the use of mevalonate pathway modulators as cognitive enhancers” (Invited Talk)

2. ION Symposium, Emory University, Atlanta GA. July 27<sup>th</sup>, 2018 “The Temporal Dynamics of Arc Regulate Cognitive Flexibility” (Keynote Talk)
3. First Annual Georgia Collegiate Neuroscience Symposium, University of Georgia, Athens GA. April 20<sup>th</sup>, 2018 “Ubiquitin-dependent control of Cognition” (Invited Talk)
4. Atlanta Society for Neuroscience, January 25<sup>th</sup>, Atlanta GA, 2018. “Ubiquitin-dependent Control of Cognition” (Invited Talk)
5. Atlanta Autism Consortium (AAC) and Emory Conte Center, Autism Research Symposium and Poster Session, Atlanta GA, September 28<sup>th</sup> 2017. “Role of Protein Ubiquitination in Autism Spectrum Disorder” (Invited Talk)
6. Molecular Translational Diagnostics and Medicine Joint Group Meeting, Atlanta GA, May 24<sup>th</sup>, 2017. “Emerging Roles of Arc Ubiquitination in Synaptic Plasticity” (Talk)
7. Egr3, Arc, and Neural Plasticity in Behavior and Psychiatry, Washington State University, Spokane WA, October 5<sup>th</sup>, 2015. “Role of Ubiquitination in Post-Translational Regulation of Arc” (Invited Talk)
8. 12<sup>th</sup> National Meeting, France Association for Angelman Syndrome (AFSA). October 18<sup>th</sup>, 2014 “Mechanisms of UBE3A Imprinting” (Talk)
9. 3<sup>rd</sup> Angelman Syndrome International Meeting, Paris France. October 17<sup>th</sup>, 2014 “Mechanisms of UBE3A Imprinting” (Talk)
10. XIX Angelman Syndrome National Meeting (OR.S.A.), Perugia Italy. October 10<sup>th</sup>, 2014 “Mechanisms of UBE3A Imprinting” (Talk)
11. ASSERT Coventry, England. September 1st, 2012 “A New Angle on Angelman Syndrome” (Keynote Talk)
12. Third International Conference on Ubiquitin, Ubiquitin-Like Proteins and Cancer, Houston TX, 2006 (Talk)
13. MCP Signal Transduction Research Training Symposium, Madison WI, 2005 (Talk)
14. Clarkson University Department of Chemistry Seminar Series, Potsdam NY, 2002 (Talk)
15. NSF-sponsored REU Chemistry Seminar Talks, Storrs CT, 2000 (Talk)

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## PUBLISHED ABSTRACTS

(Graduate students (+), undergraduate students (++))

1. “Role of *Rnf216/Triad3* on neuron development and degeneration.” A. Charles<sup>++</sup>, **A. Mabb**; Society for Neuroscience Meeting, San Diego CA, November 6, 2018.
2. “Emerging roles of *Rnf216/Triad3* in the hypothalamic-pituitary-gonadal axis.” A. George<sup>+</sup>, **A. Mabb**; Society for Neuroscience Meeting, San Diego CA, November 6, 2018.
3. “Defects in Arc turnover impair cognitive flexibility.” A. Ghane<sup>+</sup>, M. Wall, D. Collins, S. Chery<sup>++</sup>, Z. Allen, E. Pastuzyn, A. George<sup>+</sup>, V. Nikolova, S. Moy, B. Philpot, J. Shepherd, J. Muller, M. Ehlers, S. Correa, **A. Mabb**; Society for Neuroscience Meeting, San Diego CA, November 5, 2018.
4. “Dorsal CA1 ensemble activity during an attentional set-shifting task.” A. Ghane<sup>+</sup>, K. Daley<sup>+</sup>, Z. Allen, I. Belykh, **A. Mabb**; Molecular and Cellular Cognition Society 17<sup>th</sup> Annual Symposium, San Diego CA, November 1, 2018.

5. "Effects of delta-tocotrienol and lovastatin on GluA1 and the accumulation of Amyloid-beta protein: role of the mevalonate pathway." K. Bechdol<sup>++</sup>, S.T. Yount<sup>++</sup>, S. Sparks<sup>++</sup>, Z.A. Allen, A. **M. Mabb**, W. XIA, H. Mo; American Society of Nutrition, Boston, MA. June 6, 2018.
6. "The temporal dynamics of Arc expression regulate cognitive flexibility." **A. Mabb**, M. Wall, D. Collins, S. Chery<sup>++</sup>, Z. Allen, E. Pastuzyn, A. George<sup>+</sup>, V. Nikolova, S. Moy, B. Philpot, J. Shepherd, J. Muller, M. Ehlers, S. Correa; Society for Neuroscience Meeting, Washington, D.C. November 11-15, 2017.
7. "Effect of delta-tocotrienols on GluA1 and amyloid beta protein: mevalonate pathway and beyond." **A. Mabb**, S.T. Yount<sup>+</sup>, Z.A. Allen, H. Mo, W. Xia; Society for Neuroscience Meeting; Washington, D.C. November 11-15, 2017.
8. "The temporal dynamics of Arc expression regulate cognitive flexibility." S. Correa, M. Wall, D. Collins, S. Chery<sup>++</sup>, Z. Allen, E. Pastuzyn, A. George<sup>+</sup>, V. Nikolova, S. Moy, B. Philpot, J. Shepherd, J. Muller, M. Ehlers, **A. Mabb**. 9<sup>th</sup> International Meeting on Metabotropic Glutamate Receptors, Taormina, Sicily, Italy, October 1-6, 2017.
9. "Triad3A regulates synaptic strength by ubiquitination of Arc." H.S. Je, **A. Mabb**, M. Wall, C. Robinson, R. Larsen, Y. Qiang, S. Correa, M. Ehlers; Society for Neuroscience Meeting, Washington, D.C. November 15-19, 2014.
10. "Feasibility of high-throughput screening in neurons using microarray arrays." M. Niedringhaus, **A. Mabb**, Y. Wang, P. Kunz, B. Philpot, N. Allbritton, A. Taylor; Society for Neuroscience Meeting, San Diego, CA. November 9-13, 2013.
11. "Triad3A regulates synaptic strength by ubiquitination of Arc at endocytic zones." **A. Mabb**, H. Je, R. Larsen, C. Robinson, M. Ehlers. Keystone Symposia: Synapses and Circuits: From Formation to Disease, Steamboat Springs CO, April 1-6, 2012.
12. Triad3A regulates synaptic strength by ubiquitination of Arc at endocytic zones." **A. Mabb**, H. Je, R. Larsen, C. Robinson, M. Ehlers; Society for Neuroscience Meeting, Washington DC, November 2011.
13. "PIASy mediates NEMO SUMOylation and NF- $\kappa$ B activation in response to genotoxic stress." **A. Mabb**, S. Davis, S. Miyamoto; Department of Defense Era of Hope Breast Cancer Research Conference, Baltimore MD, June 25-28, 2008.
14. "A SUMO E3 promotes NEMO SUMOylation and NF- $\kappa$ B activation in response to genotoxic stress." **A. Mabb**, S. Wuerzberger-Davis, S. Miyamoto; Keystone Symposia: NF- $\kappa$ B: 20 Years on the Road from Biochemistry to Pathology, Banff AB, March 23-28, 2006
15. "A SUMO ligase for NEMO." **A. Mabb** and S. Miyamoto; The Ubiquitin Family meeting at Cold Spring Harbor Laboratory, Cold Spring Harbor NY, May 2005.

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#### RELEVANT NEUROSCIENCE-RELATED COURSES:

- MBL Woods Hole Neurobiology Course. Summer 2009
- Neurobiology of Disease. Fall 2008

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#### PROFESSIONAL SOCIETIES

- Molecular and Cellular Cognition Society (MCCS). 2018 - present
- Atlanta Autism Consortium Member. 2017 - present
- Lifetime Member, Nu Rho Psi, Neuroscience Academic Honor Society. 2016 - present
- Member, Society for Neuroscience. 2010 – present

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#### MENTORSHIP AND TRAINING

##### Current Postdoctoral fellows

- Dr. Wei Wei, Neuroscience Institute (June 2018 – Present)

**Current Graduate students**

- Dina Yakout, Neuroscience Institute (February 2018 – Present)
- Mohammad Ghane, Neuroscience Institute (July 2017 – Present)
- Arlene George, Neuroscience Institute (October 2016 – Present)

**Current Master students**

- Jayashree Kadirvelu, Georgia State University, Neuroscience Institute (July 2017 – present)

**Current Undergraduate students**

- Dustin E. Grossman, Georgia State University (October 2018 – present), University Assistantship Scholar (January 2019 – present)
- Antoinette J. Charles, Georgia State University, University Assistantship Scholar, Gates Millenium Scholar (August 2016 – present)

**Current High School students**

- Joseph Sexton, Forsyth High School (June 2018 – present)

**Former Postdoctoral fellows**

- Dr. Harshul Batra, Neuroscience Institute. Co-mentored with Dr. Elliott Albers and Dr. Daniel Cox. (September 2017 – March 2018), Microbiology Supervisor, AmerisourceBergen

**Former post baccalaureates**

- Lucas Gomes Marques, Georgia State University, post baccalaureate researcher volunteer (October 2017 – December 2018), Morehouse School of Medicine (fall 2019)

**Former Undergraduate students (with current affiliations)**

- Sophie T. Yount, Georgia State University, Brains & Behavior Scholar (summer 2017), Co-mentored with Dr. Huanbiao Mo (June 2017– December 2018), Emory University Molecular and Systems Pharmacology Graduate Program (fall 2019)
- Fernanda P. Tallard, Georgia State University undergraduate/post baccalaureate researcher (May 2017 – September 2018)
- Bailey B. Cottrill, Georgia State University, GSU IMSD student (November 2016 – June 2018), Honors thesis
- Samantha L. Chery, Georgia State University, GSU IMSD student, undergraduate/post baccalaureate researcher (June 2016 – June 2017), University of North Carolina, PREP Program (2017-2018), University of North Carolina Biological and Biomedical Sciences Ph.D. Program (2018 – Present)
- Christopher Ware, University of Georgia, volunteer summer student (June 2016 - August 2016), University of Chicago PREP program (June 2018 – August 2019), Georgia State University Neuroscience Institute Graduate Program (fall 2019)

**Dissertation Committee Member, Graduate Students**

- Cassandra L. Miller, Georgia State University, Chemistry (March 2019 – present)
- Li Zhou, Georgia State University, Chemistry (October 2018 – present)
- Shatabdi Bhattacharjee, Georgia State University, Neuroscience Institute (July 2017 – present)
- Atit Patel, Georgia State University, Neuroscience Institute (June 2017 – present)
- David Mudd, Georgia State University, Neuroscience Institute (May 2017 – present)
- Leah Krevitt, Georgia State University, Neuroscience Institute (June 2017 – August 2018)

**Neuroscience Advisory Committee, Graduate Students**

- Member, Dusty Moon, Georgia State University, Neuroscience Institute (August 2018 – present)
- Member, Dina Yakout, Georgia State University, Neuroscience Institute (August 2017 – present)
- Chair, Mohammad Ghane, Georgia State University, Neuroscience Institute (August 2017 – present)

- Chair, Arlene George, Georgia State University, Neuroscience Institute (August 2016 – 2018)

#### **Dissertation Committee Member, Masters Students**

- Katherine F. Bechdol, Georgia State University, Department of Nutrition (March 2019 – present)

#### **Masters Non-Thesis Mentor**

- Sean M. Walsh, Georgia State University, Biology (BIOL 8888, spring 2019)
- Antoinette M. Morris, Georgia State University, Biology (BIOL 8888, fall 2017)

#### **Masters Non-Thesis Reader**

- Nicholas M. McGregor, Georgia State University, Biology (spring 2019)
- Justin K. Messex, Georgia State University, Biology (spring 2019)
- Michael C. Okoro, Georgia State University, Biology (spring 2019)

#### **Undergraduate Thesis Mentor**

- Bailey Cottrill, Georgia State University (NEUR 4880, spring 2018)

#### **GSU ION Program Mentor**

- Joseph Sexton, Forsyth High School (summer 2018)

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#### **SELECTED HONORS AND AWARDS FOR GRADUATE/UNDERGRADUATE/HIGH SCHOOL STUDENTS**

- Arlene George (Graduate), 42<sup>nd</sup> Annual Meeting of the Japan Neuroscience Society Travel Award, 2019
- Antoinette Jasmine Charles (Undergraduate), GSU's Outstanding Student for 2019
- Antoinette Jasmine Charles (Undergraduate), *Nu Rho Psi* National Undergraduate Research Grant (2018)-**\$1,000 award**. 1 of 4 students nationally.
- Arlene George (Graduate), Brains & Behavior Fellowship (August 2018 – present)
- Antoinette Jasmine Charles (Undergraduate), MedPREP@Emory Scholar program (summer 2018)
- Sophie Yount (Undergraduate), REU Program Indiana University of Bloomington (summer 2018)
- Mohammad Ghane (Graduate), Science ATL Communication Fellowship (July 2018 – present) -**\$600 stipend**
- Antoinette Jasmine Charles (Undergraduate) GSU Goldwater Scholarship Nominee, Goldwater Scholarship Honorable Mention (2017)
- Antoinette Jasmine Charles (Undergraduate), NYU Summer Undergraduate Research Program (SURP) at the Sackler Institute at NYU School of Medicine (summer 2017)
- Bailey B. Cottrill (Undergraduate), Marcus Autism Center Undergraduate Practicum Training (summer 2017)
- Bailey B. Cottrill (Undergraduate), Phi Mu Foundation Academic Scholarship (June 2017)
- Dina Yakout (Graduate), 2CI Neurogenomics Fellowship (August 2016 – present)
- Mohammad Ghane (Graduate), 2CI Neurogenomics Fellowship (August 2016 – present)

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#### **COURSES TAUGHT AT GEORGIA STATE UNIVERSITY**

- NEUR 8050-Skills for Professional Neuroscientists (3 credits), spring 2019
- NEUR 6115/4115/4115H, BIOL 6115/4115/4115H-Medical Neuroanatomy (4 credits), fall 2017, fall 2018
- NEUR 6015/4010/4010H, BIOL 6930-Cellular and Molecular Neuroscience (4 credits), spring 2017, spring 2018

#### **Mentoring-based courses**

- NEUR 9920-Advanced Directed Readings (3 credits), spring 2018, summer 2018, fall 2018
- BIOL 8888-Non-Thesis Master's Research (4 credits), spring 2019
- NEUR 4980-Undergraduate Neuroscience Research, fall 2016, spring 2018, fall 2018
- NEUR 4880-Honors Thesis Research (3 credits), spring 2018
- NEUR 4870-Honors Thesis Research (3 credits), fall 2017

#### **Guest Lectures**

- NEUR 6015/4010/4010H, BIOL 6930-Cellular and Molecular Neuroscience, spring 2019



- NEUR 4200/4200H/6200, BIOL 4200/4200H/6200-Neuroscience of Memory, fall 2018

## PREVIOUS TEACHING EXPERIENCE

- **University of North Carolina-Chapel Hill, Chapel Hill, NC.** 2011 - 2015  
*UNC Graduate and Medical Student Rotation Mentor*
- **North Carolina State University.** 2015  
*Exam/Quiz Proctor*
- **University of North Carolina-Chapel Hill, Chapel Hill, NC.** 2012 - 2013  
*UNC Post baccalaureate Research Education Program (PREP) Student Mentor*
- **Clarkson University Department of Chemistry Potsdam, NY.** 2001 - 2002  
*CM105-General Chemistry Lab, Teaching Assistant*

## ADMINISTRATION AND SERVICE

### Department

- Brains & Behavior Ambassador, 2017 - Present
- 2CI Neurogenomics Fellows Committee, 2017 – Present
- Undergraduate Program Committee, 2018 - 2019
- Neuroscience Institute Committee on Research & Facilities, 2016 - 2019
- Neuroscience Institute Faculty Search Committee, 2017 – 2018
- Neuroscience Institute Faculty Search Committee, 2016 – 2017

### Department *ad hoc* committees

- Neuroscience Institute Research Focus Group, 2018
- Brains & Behavior Fellowship Pre-Selection Committee, 2017

### University

- Volunteer Judge, Georgia State Undergraduate Research Conference, 2018, 2019
- Proposal Reviewer, Georgia State Undergraduate Research Conference, 2017

### Former Institutions

- University of Wisconsin-Madison, Molecular and Cellular Pharmacology Steering Committee. 2003 - 2007
- University of Wisconsin-Madison, Vilas Fellowship Peer Review Committee. 2006

## MEDIA

### EurekAlert. 2018

Single protein on-off switch controls learning flexibility and acquisition of new memories

[https://www.eurekalert.org/pub\\_releases/2018-05/uob-spo052918.php](https://www.eurekalert.org/pub_releases/2018-05/uob-spo052918.php)

### Science Daily. 2018

Memory depends on protein 'off-switch'

<https://www.sciencedaily.com/releases/2018/05/180531131057.htm>

### Medical Xpress. 2018

Single protein on-off switch controls learning flexibility and acquisition of new memories

<https://medicalxpress.com/news/2018-05-protein-on-off-flexibility-acquisition-memories.html>

### Daily Mail. 2018

Switching a single protein 'on' and 'off' controls our ability to learn – and fixing it could offer hope to Alzheimer's sufferers

<http://www.dailymail.co.uk/health/article-5791507/Switching-single-protein-controls-ability-learn-adapt.html>

### Georgia State University Research Office. 2018

Study reveals protein longevity in the brain controls flexible learning

<https://news.gsu.edu/2018/05/31/study-reveals-protein-longevity-in-the-brain-controls-flexible-learning/>

**The Charlotte Observer.** 2015

“Could autism and ‘chemo brain’ share similar origin?”

Contribution: Article highlight

<http://www.charlotteobserver.com/news/science-technology/article9513272.html>

**UNC Health Care and UNC School of Medicine.** 2014

“UNC researchers pinpoint chemo effect on brain cells, potential link to autism”

Contribution: Article highlight

<http://news.unchealthcare.org/news/2014/december/unc-researchers-pinpoint-chemo-effect-on-brain-cells-potential-link-to-autism>

**Simon’s Foundation Autism Research Institute (SFARI).** 2011

“Insights for autism from Angelman’s syndrome”

Contribution: Author

<https://spectrumnews.org/opinion/viewpoint/insights-for-autism-from-angelman-syndrome/>

**SFARI Wikipedia entries.** 2011

Contribution: First author

<https://spectrumnews.org/wiki/angelman-syndrome/>

<https://spectrumnews.org/wiki/ube3a/>

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## **VOLUNTEER EXPERIENCE**

**SfN Neuroscience Institute Graduate Recruitment Booth.** 2016, 2017, 2018

Volunteer

**UNC Postdoc Bootcamp Day.** 2015

Postdoc Panelist

**Ramblin’ Rose Women’s Triathlon.** 2014

Volunteer

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