

Stephen L. P. Lippi, Ph.D.

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Education

George Mason University, Fairfax, VA

- Ph.D., Psychology (Spring 2018), 3.98 GPA
 - Concentration in Cognitive & Behavioral Neuroscience
 - Dissertation title: *Characterization of a Novel hAPP/Tau Mouse Model of Alzheimer's Disease: Exploring the Impact of Zinc Supplementation*
 - Dissertation Adviser: Jane Flinn, Ph.D.
- M.A., Psychology (Summer 2014), 4.0 GPA
 - Concentration in Cognitive & Behavioral Neuroscience
 - Thesis title: *The effect of mild copper deficiency on fear extinction and motor functioning*
 - Thesis Adviser: Jane Flinn, Ph.D.
- B.S., Psychology (Spring 2013), Magna Cum Laude, 3.86 GPA
 - Minor in Chemistry

Professional Experience

Angelo State University: Department of Psychology & Sociology

August 2018 – Present

Assistant Professor, Tenure-Track

- Graduate level:
 - **PSY 6317 – Evolutionary Psychology** (graduate elective course): Preliminary study of evolutionary psychology principles; focus on natural selection, sexual strategies, the role of adaptations, and other evolutionary mechanisms ([F18](#))
 - **PSY 6341 - Advanced Learning** (elective graduate course in the MS in Applied Psychology program): Focus on different aspects of learning (classical and instrumental conditioning), social learning, and biological bases of learning and memory ([S19 \(online\)](#))
 - **PSY 6366 - Multivariate Design & Analysis** (graduate requirement for MS in Experimental Psychology): Examination of various multivariate techniques (multiple/logistic regression, MANOVA, ANCOVA, Survival analysis, PCA/EFA) and how to run the tests in statistical software (SPSS & Jamovi) ([S19](#), [S20](#), [S21](#))
 - **PSY 6368 - Neuroscience II** (graduate requirement for MS in Experimental Psychology): An in-depth exploration of cellular and chemical bases of behavior. Emphasis placed on neurodevelopment, differences between ionotropic and metabotropic communication, and mechanisms of sensory and motor systems ([S20](#), [S21](#))
 - **PSY 6381 - Special Topics: Science of Brain Health** (graduate elective for MS in Experimental Psychology and other graduate programs): An in-depth exploration of Alzheimer's disease and the impact that lifestyle factors (diet, exercise, sleep, and stress) have on the brain and body ([F19](#))
- Undergraduate level:

- **PSY 2110 - Applying your Degree** (required course for B.A. and B.S. Psychology majors): Students will explore a variety of career opportunities that can be pursued after obtaining a degree in Psychology. Topics may include: resume writing, interviewing skills, conducting a job search, and how to tailor skills learned in the degree to qualities sought by employers (F20)
- **PSY 2321 – Research Methods & Statistics** (required course for B.A. and B.S. Psychology majors): A survey of experimental and non-experimental methods of gathering data as well as the statistics required to analyze this data (analyses include: measures of central tendency and variability, correlation, regression, z- and t-tests, and ANOVA) (F18, S19, F19, S20, F20, S21)
- **PSY 4309 – Cognition**: A study of higher level intellectual processes, including attention, knowledge, problem solving, decision-making, the types of memory, and perception (F18, F19(online), F20(online))
- **PSY 4313 – Behavioral Neuroscience**: A study of the interaction between the nervous system and behavior; topics include the structure and function of the nervous system, learning and memory, hunger, sleep, the sensory systems, emotions, and the effects of drugs (F18, S19, Summer19(online), F19, S20, Summer20(online), F20)
- **PSY 4329 - Evolutionary Psychology** (undergraduate elective course): A broad survey of relevant areas of study in the application of evolutionary theory to psychology and human behavior; topics include natural selection, sexual strategies, the role of adaptations, and other evolutionary mechanisms (Summer 19(online), Summer 20(online))

George Mason University: Department of Psychology

August 2013-July 2018

Graduate Teaching Assistant (GTA)

- Instructor for **PSYC 100 – Basic Concepts in Psychology** (lecture course required for B.A. & B.S. Psychology majors and minors in Psychology): focus on the introduction of Psychology as a science and covering the basic areas of Psychology including abnormal, biological, cognitive, developmental, social, and learning & memory (F15, Summer 16, Summer 17(online), Summer 18(online))
- Instructor for **PSYC 300 – Statistics in Psychology** (lecture course required for B.A. & B.S. Psychology majors): focus on descriptive and inferential statistics in design, analysis, and interpretation of psychological research (descriptive statistics, hypothesis testing, T-tests, ANOVAs, regression, non-parametric tests and SPSS are highlighted and explored) (S17)
- Instructor for **PSYC 372 - Physiological Psychology** (lecture course required for B.S. and B.A. Psychology majors): focus on neuroanatomy, neurophysiology, sensory systems, and relations between brain and behavior (S14, Summer14, F14, S15, F15, S16, F16, S17, F17)
- Instructor for **PSYC 373 – Physiological Psychology Laboratory** (lab course required for B.S. Neuroscience and B.S. Psychology majors): focus on neurophysiology and neuroanatomy through use of sheep brain and eye dissections (F13, S14, S15, F17)
- Instructor for **PSYC 375 – Brain & Sensory Processes** (lecture course required for B.S. Neuroscience majors): focus on neurophysiology, neuroanatomy, and an in-depth focus on the sensory systems (F14, Summer15, Summer 16, Summer17(online), Summer18(online))
- Instructor for **PSYC 461 – Special Topics in Psychology, Disorders in the brain** (elective lecture course covering topics such as drugs and addiction, stress, inflammation, Parkinson & Huntington's disease, Traumatic Brain Injury, and Alzheimer's disease). (F16)

University of Mary Washington: Department of Psychological Science

Spring 2018

Adjunct Faculty

- Instructor for **PSYC 100** – General Psychology (lecture course required for Psychology majors): fundamental principles of human behavior; history, research methods, the nervous system, learning & memory, personality, psychological disorders, therapy, social behavior, and careers in Psychology

Publications (*most recently published listed first*)

1. **Lippi, SLP.,** Kakalec, PA., Smith, ML., & Flinn, JM. (2020). Wheel-running behavior is negatively impacted by zinc administration in a novel dual transgenic mouse model of AD. *Front. Neurosci.* 14:854. doi: 10.3389/fnins.2020.00854
2. Neely, C. L. C., **Lippi, S. L. P.,** Lanzirotti, A., & Flinn, J. M. (2019). Localization of free and bound metal species through X-ray synchrotron fluorescence microscopy in the rodent brain and its relation to behavior. *Brain Sci.*, 9(4), 74. doi: 10.3390/brainsci9040074
3. **Lippi, SLP,** Craven, KM., Hernandez, CM., Grant, GM., & Flinn, JM. (2019). Perfusion alters free zinc levels in the rodent brain. *Journal of Neuroscience Methods*, [https://doi: 10.1016/j.jneumeth.2018.12.018](https://doi.org/10.1016/j.jneumeth.2018.12.018)
4. **Lippi, SLP,** Smith, ML, & Flinn, JM (2018). A novel hAPP/htau mouse model of Alzheimer’s disease: Inclusion of APP with tau exacerbates behavioral deficits and zinc administration heightens tangle pathology. *Front. Aging Neurosci.*, doi: 10.3389/fnagi.2018.00382

Publications in progress

- Thompson, M., **Lippi, S. L. P.,** & Krietler, C. M. The examination of cross-fostering with ICR mice as a model for foster care. *Journal of Foster Care*. (Submitted; under review)
- **Lippi, SLP.** Chronic mild unpredictable stress and high-fat diet given during adolescence impact both cognitive and noncognitive behaviors in young adult mice. *Brain Sciences* (Submitted; under review)
- Dimopoulos, T. T., **Lippi, S. L. P.,** Barkey, R. E., Doherty, E. N., Gervase, T., Craven, K. M., Hernandez, C. M., Kochen, W. R., & Flinn, J. M. Agaricus Bisporus supplementation ameliorates spatial memory in an amyloid precursor protein mouse model.

Honors and Awards

- Angelo State University
 - Faculty Research Enhancement Program (FREP) Funding (**\$14,221**)
 - “The Effect of High-fat Diet on a Tauopathy Mouse Model of Alzheimer’s and its Role in the Brain and Behavior”
 - Undergraduate Faculty Mentored Academic Grant, Fall 2019 - Spring 2020 (**\$1,500**)
 - New faculty research start-up funding for new tenure-track faculty - **\$1,342.12**
- George Mason University
 - *Nomination:* George Mason University Adjunct Faculty Teaching Excellence Award
 - Dissertation Completion Grant, Spring 2018 semester - **\$10,000**
 - Osher Lifelong Learning Institute Scholarship - **\$500**
 - 2016 American Psychological Association Dissertation Research Award - **\$1,000**
 - 2016 Phi Kappa Phi Love of Learning Award - **\$500**
 - Department of Psychology Outstanding Graduate Student Instructor, 2016
 - Office of Student Scholarship, Creative Activities, and Research (OSCAR) Fellow (2014-2015)

- A representative of the GMU OSCAR office; helped to promote the growth of undergraduate scholarship and research on campus
- Undergraduate Research Scholars Program (URSP) award recipient: Spring13, Summer13
 - Awarded through the OSCAR program
 - S13 - **\$1,500** towards research
 - Summer13 - **\$5,000** towards research
- Department of Psychology Outstanding Undergraduate Researcher, Spring 2013
- Department of Psychology Outstanding Senior Award, Spring 2013
- George Mason University, Dean's List: Fall 2010, Spring 2011, Fall 2011, Spring 2012, Fall 2012, Spring 2013

Poster Presentations

Angelo State University

- **Lippi, S. L. P.**, Thompson, M., Voth, L., & Flores, A. (2019, October). Chronic mild unpredictable stress and high-fat diet given during adolescence impact both cognitive and noncognitive behaviors in young adult mice. Poster presented at the annual Society for Neuroscience (SfN) Conference, Chicago, IL.
- Thompson, M., **Lippi, S. L. P.**, & Kreitler, C. (2019, October). The effect of maternal deprivation on behavior in a mouse model. Poster presented at the annual Society for Neuroscience (SfN) Conference, Chicago, IL.

George Mason University

- **Lippi, S. L. P.**, Craven, K. M., Smith, M. L., Sobeski, M. A., & Flinn, J. M. (2018, November). Assessment of brain pathology in a novel hAPP/Tau mouse model of Alzheimer's disease: Effects of zinc supplementation. Poster presented at the annual Society for Neuroscience (SfN) Conference, San Diego, CA.
- Coschigano, N., Craven, K., **Lippi, S.**, & Flinn, J. M. (2018, November) The effect of repetitive mild traumatic brain injury on Alzheimer's mice containing mutations for amyloid precursor protein and tau. Poster presented at the annual Society for Neuroscience (SfN) Conference, San Diego, CA.
- **Lippi, S. L. P.**, Smith, M. L., Dimopoulos, T. T., Wood, J. M., Booth, A., & Flinn, J. M. (2017, November). Characterization of a novel APP/tau transgenic mouse model of Alzheimer's disease. Poster presented at the annual Society for Neuroscience (SfN) Conference, Washington, D. C.
- Smith, M. L., **Lippi, S. L. P.**, Wood, J. M., Dimopoulos, T. T., & Flinn, J. M. (2017, November). Impairments in activities of daily living and wheel running behavior in a novel APP/tau mouse model of Alzheimer's disease. Poster presented at the annual Society for Neuroscience (SfN) Conference, Washington, D.C.
- **Lippi, S. L. P.**, Craven, K., & Flinn, J. M. (2017, August). The effects of perfusion on free zinc levels in the rodent brain. Poster presented at the APA annual convention, Washington, D. C.
- Craven, K., Kochen, W., **Lippi, S. L. P.**, & Flinn, J. M. (2016, November). The effects of zinc on expression of phosphorylated tau and zinc fluorescence. Poster presented at the annual Society for Neuroscience (SfN) Conference, San Diego, CA.
- **Lippi, S. L. P.** (2016, September). The effects of an online program and test format on student performance. Poster presented at the Innovations in Teaching & Learning (ITL) Conference, George Mason University, Fairfax, VA.
- **Lippi, S. L. P.**, Cerri, D. D. & Flinn, J. M. (2015, October) Zinpyr-1 in flash frozen tissue can be used to show increased Zn fluorescence in the dentate gyrus and CA3 region of the hippocampus. Poster presented at the annual Society for Neuroscience (SfN) Conference, Chicago, IL.

- Neely, C.*, **Lippi, S. L. P.***, Wilkins, S. & Flinn, J. M. (2014, November) The effects of mild copper deficiency on fear extinction and motor behavior. Poster presented at the annual Society for Neuroscience (SfN) Conference, Washington, D. C. (* Primary co-authors)

Mentored-student Research Presentations - George Mason University

- Sobeski, M., **Lippi, S. L. P.**, & Flinn, J. M. (2018, November) Analysis of inflammatory biomarkers in a novel mouse model of Alzheimer's disease. Poster presented at the annual Society for Neuroscience (SfN) Conference, San Diego, CA.

Mentored Student Research - Angelo State University

- Undergraduate Faculty Mentored Academic Grant, Fall 2019 - Spring 2020 (**\$1,500**)
 - Aryalexis Covarrubio - "The Impact of High-Fat Diet and Exercise During Adolescence on Learning & Memory in Young Adulthood"

Thesis Advisory Committee Involvement

- "How age and exercise affects learning and memory in stressed mice"
 - Kateri Oakley (**Chair**)
- "The effect of environmental enrichment on the withdrawal of methamphetamine dependent rats"
 - Maria Muniz (*Member*)
- "The effect of colony versus isolated housing on the self administration of alcohol and risk taking behaviors in an alcohol-preferring rat model"
 - Hali Johns (*Member*)
- "How juvenile recidivism is influenced by trauma and counseling: A meta-analysis"
 - Courtney Shields (*Member*)
- "The effect of medroxyprogesterone acetate on learning and memory in ovary intact mice"
 - Alyssa Flores (**Chair**)
- "The examination of cross-fostering with ICR mice as a model for foster care"
 - Marisa Thompson (*Member*)
- "Influence of exercise on oxycodone withdrawal"
 - Lacey Voth (*Member*)

University Service

- Angelo State University
 - Archer College of Health and Human Services
 - ASU Building Exploratory (Ad-hoc) Committee, Fall 2018 - Spring 2019
 - ASU Former Foster Care Steering Committee, Fall 2019 - *Present*
- Library Committee, Fall 2019 - Spring 2020
- Academic Excellence Committee, Fall 2019 - Spring 2020
- Graduate Student Research Vetting Committee, Spring 2020 - *Present*

College Service

- Angelo State University, Department of Psychology & Sociology
 - Student Retention Liaison, Spring 2019 - *Present*
 - Exit Exam Review and Revision

Appearances in the Media

- The science behind kindness: Why we enjoy giving, receiving and witnessing acts of kindness. (February 2020). Fox West Texas

- The science behind kindness

Professional Activities

- Editorial Board Member
 - *NeuroSports*, the Journal of the Society for NeuroSports
- Adviser
 - Angelo State University Graduate Science Research Organization (GSRO), Fall 2019 - *Present*
- Journal Manuscript Reviewer
 - Behavioral Brain Research - 2019
 - Scholarship of Teaching and Learning in Psychology (STL) - 2018
- Stearns Center for Teaching and Learning, George Mason University
 - Conference proposal reviewer, 2018 - 2019
- Textbook Reviewer
 - Flatworld – *Biopsychology: Fundamentals, Contemporary Issues, and the Future* review - (Summer 2018)
 - Sinauer Associates, Inc. Publishers Textbook Reviewer (Behavioral Neuroscience, Eighth edition, *Breedlove*) - (Summer 2018)
 - Oxford University Press USA Textbook Reviewer (Biological Psychology, *Kelly Lambert*) - (Summer 2017)
 - SAGE Publications Textbook Reviewer (Brain and Behavior: The Essentials and Beyond) - (Summer 2016)
- Educational Testing Service: College Board
 - 2017 & 2018
 - AP Psychology Exam Reader
 - Served as a reader at the AP Psychology Exam grading event in Tampa, FL. Duties included careful inspection of test materials and grading exams based on rubrics to ensure reliability for students taking the AP Psychology exam.
- George Mason University Students in Neuroscience (SiN), 2013-2018
 - Vice President, 2016-2017
 - Secretary, 2015-2016
 - Webmaster, 2013-2014
- George Mason University, Cure Mental Illness Chapter
 - Secretary, 2016-2017

Affiliations/Memberships

- Society for Neuroscience (SfN), Member, 2019 - *Present*
 - Conference attendee; attendee at workshops and talks for professional development
 - Poster presenter, 2018-2019
 - Graduate Student Member, 2013-2018
 - Conference attendee; attendee at workshops and talks for professional development
 - Poster presenter, 2013-2015, 2017
- American Psychological Association (APA), 2014-*Present*
- Association for Psychological Science (APS), 2016 - 2018
- The Honor Society of Phi Kappa Phi, 2016 - 2017
- Golden Key International Honour Society, 2016-*Present*
- Psi Chi: The International Honor Society in Psychology, 2012 - *Present*
- Alpha Lambda Delta: Freshman Honor Society, 2011-*Present*

Professional Development/Conferences Attended

- Society for Neuroscience (SfN) (2013-*present*)
- NIH Regional Seminar on Program Funding and Grant Administration (Baltimore, MD) - May 2019
- PROV 701: Preparing for Careers in the Academy (Fall 2017-Spring 2018 cohort)
- Innovations in Teaching & Learning Conference, George Mason University (2015 – 2017)
- APA Annual Convention (2017)

Skills / Certifications

- Proficient in statistical software
 - SPSS
 - GraphPad Prism
 - Jamovi
- Proficient in Microsoft Office (Word, Excel, PowerPoint)
- Programming for Everybody (Getting Started with Python) by University of Michigan on Coursera. Certificate earned on July 3, 2017.

Research Experience

Angelo State University: Department of Psychology & Sociology

B.E.A.D.S. (Behavior/Brain, Environment/Enrichment, Aging, Diet, Stress) Lab

Fall 2018 - *Present*

- Work in my lab emphasizes the impact of lifestyle factors on the brain and behavior, primarily through the use of non-human animal models.
- **Behavioral Assessments**
 - Activities of daily living (Nesting & Burrowing), Morris Water Maze, Barnes Maze, Open Field, Elevated Zero Maze, Forced Swim and respective software (Harvard, Smart Video Tracking software)
- **Biochemical Assessments**
 - Western Blot

George Mason University: Department of Psychology, Cognitive & Behavioral Neuroscience (CBN)

Fall 2013- Summer 2018

- Completed doctoral program in the CBN program under Dr. Jane Flinn investigating the role of biometals (Zinc) in a novel double transgenic mouse model of Alzheimer's disease (expressing mutated APP and tau)
- **Animal Handling & Behavioral testing**
 - Animal health and care (rats and mice), Fear conditioning, Fear Extinction, Accelerating Rotarod, Burrowing, Nesting, Morris Water Maze, Odor Habituation, Barnes Maze, Elevated Plus/Zero Maze, Forced Swim and respective software
- **Histology, Slicing, Post-mortem studies**
 - Experience in slicing brain tissue on both cryostat and vibratome
 - Histological stains including Cresyl Violet, Thionin, Luxol-Fast Blue, Rhodanine, and Golgi Cox, tracing neurons with use of the NeuroLucida computer program
 - Analysis of brain tissue through use of Zinpyr-1 staining of brain tissue (Zinc fluorescence), and Western Blotting to analyze protein levels in postmortem tissue

Spring 2016

- **Intensive laboratory techniques course** covering primary cell culture, toxicity assays, qPCR, and Western Blotting in A549 lung alveolar epithelial cells.