

Morgane Golan

Phone: (201) 300-5430 Email: morgane.golan@uga.edu LinkedIn: www.linkedin.com/in/morgane-golan

Education

University of Georgia

PhD Neuroscience

May 2024

GPA: 3.94

University of Massachusetts Amherst

BS Pre-Veterinary Science

May 2020

GPA: 3.88

Research Experience

Regenerative Bioscience Center (RBC) Athens, GA

July 2020 - Ongoing

Graduate Research Assistant, West and Stice Laboratories

- Leading project focused on the therapeutic potential of induced neural stem cells (iNSCs) for the treatment of traumatic brain injury (TBI) in piglets
- Acquiring MRI data and performing analyses to evaluate brain structures and integrity
- Managing piglet anesthesia and providing post-operative care to ensure animal welfare
- Practicing RNA extraction and qRT-PCR of pig blood samples to evaluate gene expression
- Performing IHC staining of brain tissue to identify distinct cell populations
- Evaluating inflammatory response to TBI through characterization of macrophage polarization
- Investigating storage and delivery of neural stem cell extracellular vesicles (NSC-EVs) for TBI
- Mentoring 1 undergraduate research assistant

Lee Science Impact Program Amherst, MA

June - August 2018

Research Fellow

- Practiced techniques involved in mouse embryo collection and culture
- Developed a pioneer study in mouse blastocyst cell proliferation labeling
- Created a poster and presented results of blastocyst study during final symposium
- Engaged in biweekly skill acquisition workshops and team-based journal clubs

Cui Lab Amherst, MA

Jan. 2018 - May 2020

Undergraduate Research Assistant

- Genotyped tissue samples for pre-implantation embryonic development studies
- Practiced skills in standard laboratory techniques, such as PCR and gel electrophoresis
- Handled laboratory rodents and conducted animal modeling experiments of genetic disorders and tissue injury systems

Commonwealth Honors College Amherst, MA

Jan. 2017 - May 2017

Independent Student Researcher

- Developed a thesis focused on characterizing the relationship between various Spanish-speaking cultures and the value of animals in their society
- Conducted interviews in Spanish of representatives in animal-related fields from Spain, Mexico and Costa Rica

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Teaching Experience

Animal Biotechnology Athens, GA Aug. 2021- Dec 2021

Graduate Teaching Assistant to Dr. Franklin West

- Wrote exam review packets and hosted study sessions for junior and senior level students
- Developed and proctored assessments to gauge student learning
- Graded submitted materials, including quizzes, exams, and presentations
- Met with students during office hours to provide tutoring, feedback, and emotional support

Poultry Management Amherst, MA June 2018 - May 2020

Head Teaching Assistant to Dr. Helene Cousin

- Supervised students as they handled birds, to ensure the safety of both parties
- Lectured on the subject of poultry health, particularly preventable diseases
- Orchestrated and ran in-class activities related to biosecurity, product marketing, etc.
- Managed care of flock of 50 laying hens; caring for, showing and marketing birds
- Spearheaded community outreach via the UMass Poultry Management Facebook page

Anatomy and Physiology of Domestic Animals Amherst, MA June 2018 - May 2020

Head Teaching Assistant to Dr. Helene Cousin

- Managed team of teaching assistants, coordinating schedules and delegating tasks
- Wrote review packets for supplemental instruction sessions
- Hosted weekly review sessions and office hours
- Oversaw student laboratory sections, demonstrating techniques and answering questions

Leadership Experience

Regenerative Bioscience Center (RBC) Athens, GA June 2021 - Ongoing

Graduate Student Association (GSA) President

- Organize social, professional, and community-focused events for the RBC
- Hosted campus-wide inclusive graduate student professional development fair at local restaurant in September 2021
- Coordinated sale of 55 units of RBC merchandise amounting to \$700 in October 2021
- Planned and hosted a charity 5K of over 50 participants to raise funds for the American Brain Tumor Association (ABTA) in November 2021
- Manage listserv, GroupMe, and social media pages for GSA
- Facilitate collaborations with other groups on campus, including Animal and Dairy Science GSA, Neuroscience GSA, and Society for Biomaterials
- Oversee organizational fundraising and spending

Veterinary and Animal Sciences (VASCI) Dept. Amherst, MA Sept. 2017 - May 2020

Student Ambassador

- Led monthly tours and tabled at open house events for prospective students/families
- Served as chief peer mentor to upwards of 35 international, transfer, first-generation, and freshmen students
- Acted on behalf of student community as Undergraduate Representative for Diversity, Equity and Inclusion in VASCI Campus Climate Committee
- Engaged with scientific community as VASCI Delegate to UMass College of Natural Sciences' Student Leadership Committee

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Publications

- Li, C.-H., Landis R. F., Makabenta, J. M., Nabawy, A., Tronchet, T., Archambault, D., Liu, Y., Huang, R., **Golan, M.**, Cui, W., Mager, J., Gupta, A., Malan, S.-S., Patel, R., Rotello, V. (2021). "Nanotherapeutics using all-natural materials. Effective treatment of wound biofilm infections using crosslinked nanoemulsions." *Materials Horizons*. doi: 10.1039/D0MH01826K
- Miao, X., Sun, T., **Golan, M.**, Mager, J., Cui, W. (2020). "Loss of POLR1D results in embryonic lethality prior to blastocyst formation in mice." *Mol Reprod Dev* **87**(11): 1152-1158. doi: 10.1002/mrd.23427
- Golan, M.** "Poultry Science at UMass." *Backyard Poultry Magazine*, August/September 2020, pp. 64-65.
- Cui, W., Marcho, C., Wang, Y., Degani, R., **Golan, M.**, Tremblay, K. D., Rivera-Pérez, J. A., Mager, J. (2018). MED20 is essential for early embryogenesis and regulates NANOG expression. *Journal of Reproduction*, *157*(3), 215-222. doi: 10.1530/REP-18-0508

Selected Presentations

- Golan, M.** and West, F. D. *Characterizing Macrophage Populations in a Porcine Model of Traumatic Brain Injury*. Talk presented at: Regenerative Bioscience Center Research Collective on April 1st, 2021; Athens, GA.
- Golan, M.** and Cui, W. *The Role of RFC1 in Preimplantation Embryo Development*. Honors thesis presented at: Veterinary and Animal Sciences Department Science Day Event on April 30th, 2020; Amherst, MA.
- Golan, M.** and Cui, W. *Using EDU labeling to assess cellular proliferation of mouse blastocyst embryos*. Poster presented at: 1st Annual Lee Science Impact Program Poster Colloquium on August 3rd, 2018; Amherst, MA.

Achievements & Honors

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| Achievement Rewards for College Scientists (ARCS) Foundation Award Winner | Fall 2021 |
| Center for the Integration of Research, Teaching and Learning (CIRTL) Associate | Fall 2020 |
| UMass Amherst Rising Researcher Award Winner | Fall 2019 |
| UMass Amherst Dean's List Honors Student | Fall 2016 - May 2020 |