



ANTHONY MASINGALE

Staff Research Assistant

Oklahoma City, OK
anthony-masingale@pm.me
(405) 862-5391
Portfolio : <https://anthonym-hiring.github.io/>

Highly skilled and detail-oriented Staff Research Assistant with a demonstrated background in conducting scientific research and data analysis. Proficient in experimental design, data collection, and statistical analysis. Strong knowledge of laboratory techniques and equipment. Proven ability to work collaboratively with a multidisciplinary team to achieve research objectives. Strong problem-solving skills and ability to work with ambiguity with an ability to prioritize tasks, manage multiple projects, and meet deadlines. Excellent organizational and time management skills, with a keen eye for accuracy and precision. Seeking to contribute my expertise and drive for innovation to further advance research initiatives in a dynamic and challenging environment.

Education

M.Sc. in Biological Data Science

Arizona State University, Tempe, AZ |
August 2022 - May 2024

New College of Interdisciplinary Arts and
Sciences | 3.9 GPA

B.Sc. in Plant Biology

University of Oklahoma, Norman, OK |
August 2013 - May 2018

Department of Microbiology & Plant
Biology | 3.2 GPA

Key Skills

- Python, R and SQL environment (e.g. Spyder, RStudio, Prism, MySQL)
- Machine Learning (ML) algorithms
- Deep Learning (DL) frameworks (e.g. PyTorch, NLP)
- Optional AI integrated workflow (e.g. Ollama, Llama3, ChatGPT, Copilot)
- Data preprocessing and manipulation libraries (e.g. Pandas, NumPy)
- Data visualization tools (e.g. Matplotlib, Seaborn, Plotly)
- Statistics and data modeling concepts (e.g. regression, clustering, decision trees)
- General Lab management and data organization
- Molecular biology skills (e.g. PCR, gel electrophoresis)
- Microscopy techniques (e.g. Fuji, brightfield, phase contrast)

Professional Experience

Staff Research Assistant

University of Oklahoma Health Science Center | October 2020 - Present

- Generated over 200 data reports in 3 years, exceeding publishing goal by 50%
- Created protocols for high-res microscopy that improved image quantification, exceeding goal time by 20%
- Improved behavioral data collection by optimizing software code and data collection workflow
- Collaborated with team members on research projects, contributing ideas and suggestions for improving study methodologies

References

Sreemathi Logan, PhD (Employer) | September 2020 - May 2024

Assistant Professor

Center for Geroscience and Healthy Brain Aging

(405) 271-2131 Ext. 47128 or Ext. 47812

sreemathi-logan@ouhsc.edu

Carlos Manlio Diaz Garcia, PhD (Associate) | January 2023 - May 2024

Assistant Professor

Department of Biochemistry & Molecular Biology

(405) 271-8000 Ext. 47817

carlosmanlio-diazgarcia@ouhsc.edu

Publications

"Mitochondrial calcium uniporter deficiency in dentate granule cells remodels neuronal metabolism and impairs reversal learning"

<https://pubmed.ncbi.nlm.nih.gov/37415312/>

May 2024

Hadyn M Rose, Beatriz Ferrán, Rojina Ranjit, Anthony M Masingale, Daniel B Owen, Stacy Hussong, Michael T Kinter, Veronica Galvan, Sreemathi Logan, Carlos Manlio Díaz-García

Department of Biochemistry and Molecular Biology, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, USA

- Cell culture and cell line management
- Histology and histopathology techniques
- DNA/RNA extraction and sequencing
- PCR, qPCR, and RT-PCR
- Protein purification and characterization (e.g. Western blotting, mass spectrometry)

Certifications

Data Literacy Certificate *DataCamp | May 2024*

Certification in Analytics Fundamentals, Data Visualization, and Data Storytelling by DataCamp

AI Fundamentals Certificate *DataCamp | May 2024*

Certification in AI Fundamentals by DataCamp

ArcGIS Pro Basics *ESRI | October 2023*

ESRI ArcGIS Pro Certification in Geostatistical Interpolation, 3D Visualization, Coordinate Systems and Regression Analysis

"A Genetically Heterogeneous Rat Model with Divergent Mitochondrial Genomes"

<https://pubmed.ncbi.nlm.nih.gov/36762848/>

May 2023

Roshini Sathiaselalan , Bumsoo Ahn , Michael B Stout, Sreemathi Logan, Jonathan Wanagat, Hoang Van M Nguyen, Norman G Hord, Amy R Vandiver, Ramasamy Selvarani, Rojina Ranjit, Hannah Yarbrough, Anthony Masingale, Benjamin F Miller, Roman F Wolf, Steven N Austad, Arlan Richardson

Oklahoma City VA Medical Center, Oklahoma City, Oklahoma, USA

"Cognitive heterogeneity reveals molecular signatures of age-related impairment"

<https://pubmed.ncbi.nlm.nih.gov/37091543/>

March 2023

Sreemathi Logan, Matthew P Baier, Daniel B Owen, John Peasari, Kenneth L Jones, Rojina Ranjit, Hannah P Yarbrough, Anthony M Masingale, Suyesha Bhandari, Heather C Rice, Michael T Kinter, William E Sonntag

Center for Geroscience and Healthy Brain Aging, University of Oklahoma Health Sciences Center, Oklahoma City, OK 73104, USA

"Selective ablation of SOD2 in astrocytes induces sex-specific effects on cognitive function, D-serine metabolism, and astroglialosis"

<https://pubmed.ncbi.nlm.nih.gov/35760531/>

August 2022

Matthew Baier, Raghavendra Nagaraja, Hannah Yarbrough, Daniel Owen, Anthony Masingale, Megan Stiles, Ashley Murphy, Martin-Paul Agbaba, David Sherry, Mike Kinter, Holly Van Remmen, Sreemathi Logan

Center for Geroscience and Healthy Brain Aging, Department of Biochemistry and Molecular Biology, The University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma 73104