Curriculum Vitae

Robert Woodry

Department of Psychology
New York University
6 Washington Place
New York, NY 10003

rfw256@nyu.edu

Hispanic/Latino Male, 28

Education

New York University
PhD, Cognition & Perception, quantitative specialization — 2021-ongoing

Loyola University New Orleans
B.S., Psychological Sciences, minor in Forensic Science — 2018
Honors Program, *Cum Laude*

Belen Jesuit Preparatory School
High School Diploma, *Magna Cum Laude* — 2015

Awards and Distinctions

NEI Early Career Scientist Travel Grant, *Vision Sciences Society* ($1000) — 2025

New York University
Computational Neuroscience Training Grant (NIH T90) — 2024-2025
Pilot Grant, *One-shot*, Center for Brain Imaging, ($28,000) — 2023-2025
Pilot Grant, *Interstellar*, Center for Brain Imaging, ($5000) — 2022
Dean's Diversity Fellowship, Department of Psychology ($10,000/yr) — 2021-2026

Loyola University New Orleans
Outstanding Research Award, Department of Psychology ($100) — 2019
Research Travel Award, Department of Psychology ($1,200) — 2019

Louisiana Academy of Sciences
Oral Presentation Finalist - 2nd place — 2019

Loyola University New Orleans
Summer Research Fellowship, Department of Psychology ($1,500) — 2018
Dean's List — 2018
Dean's List — 2016

Research Experience

New York University
Doctoral Researcher, Winawer Lab (PI: Jonathan Winawer) — 2021-present
Department of Psychology

University of California, Irvine
Lab Manager, Spatial Neuroscience Lab (PI: Elizabeth Chrastil) — 2019-2021
Department of Neurobiology & Behavior

Loyola University New Orleans
Honors Thesis Student, EEG Perception Lab (PI: Kate Yurgil) — 2018-2019
Research Assistant, EEG Perception Lab — 2017-2018
Research Assistant, Autism Research Lab (PI: Enrique Varela) — 2015-2017

Relevant Graduate Coursework

Mathematical Tools for Neural Science & Cognitive Science
Perception
Behavioral Cognitive Neuroscience
fMRILab
Computational Cognitive Modeling
Learning & Memory
MathTools II: Simulation & Data Analysis
Introduction to Theoretical Neuroscience (*Columbia University*)
Vision Neuroscience (*Audit*)
Neural Network Models of the Brain & Mind
Neural Statistics (*Audit*)

Computational Skills / Training

Skills & Proficiencies

Programming Proficiencies

Python, R, C#, MATLAB, some experience in C++

Software Skills

Unity, Eprime, PyTorch, TensorFlow

Hardware Skills

Siemens 3T MRI Scanner, EyeLink EyeTracker, BrainVision 32-channel EEG

Workshops

Scientific Communication Podcast Workshop, *New York University* 2022
Neuromatch Deep Learning, *Neuromatch* 2021
Neurohackademy, *University of Washington* 2020
Reproducibility in Neuroimaging Workshop, *ReproNim Team MIT*
MINDCore Summer Workshop, *University of Pennsylvania* 2019

Certificates

Coursera DeepLearning.AI TensorFlow Developer Certificate, *deeplearning.ai* 2020
Sequences, Time Series, and Prediction
Natural Language Processing in Tensorflow
Convolutional Neural Networks in Tensorflow
Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Coursera Deep Learning Specialization, *deeplearning.ai* 2020
Sequence Models
Convolutional Neural Networks
Structuring Machine Learning Projects
Improving Deep Neural Networks
Neural Networks and Deep Learning

Coursera (Individual Courses)

Machine Learning, Stanford University	2020
Computational Neuroscience, University of Washington	2020
Statistical Inference, Johns Hopkins University	2018
Exploratory Data Analysis, Johns Hopkins University	2018
Getting and Cleaning Data, Johns Hopkins University	2018
R Programming, Johns Hopkins University	2018

Teaching Experience

Instructor, Undergraduate Math and Coding Bootcamp (NYU) 2025
Topics I led: Intro to Python, Derivatives, Linear Algebra
Teaching Assistant, Mathematical Tools for Neural Science 2024
Instructor, Undergraduate Math and Coding Bootcamp (NYU) 2024
Topics I led: Derivatives, Regression, Neural Networks
Teaching Assistant, Illusions to Inference (NYU) 2023

Papers

Woodry, R. F., Curtis C., Winawer, J. (2024) “Feedback scales the spatial tuning of cortical responses during both visual working memory and long-term memory” *bioRxiv*

Woodry, R. F., Winawer, J., Favila, S. (in prep) “The multiple roles of visual cortex in single-shot episodic memory: encoding, recognition, and recall”

Woodry, R. F., Lindsay G., Curtis, C. E., Winawer, J. (in prep). “A network model that flexibly controls the tuning width of visual responses during perception and memory”

Woodry, R. F., & Chrastil, E. R. (in prep) “Functional connectivity profiles predict trial-by-trial success in a navigation task”

Conference Presentations

Woodry, R. F, Lindsay G., Curtis, C. E., Winawer, J. (2024). “A network model that flexibly controls the tuning width of visual responses during perception and memory”
Talk, NYU TPCN Symposium in Computational Neuroscience

Woodry, R. F., Curtis, C., Winawer, J. (2023) “Feedback scales the spatial tuning of cortical responses during visual memory”
Talk, *Society for Neuroscience;*
Talk, *Working Memory Symposium*;
Poster, *Vision Sciences Society*

E. Ward, **R. Woodry,** J. M. Carlson, E. R. Chrastil (2023) “Brain network connectivity and dynamics of navigational learning and memory”
Poster, *Society for Neuroscience*

Woodry, R. F., & Chrastil, E. R. (2021) “Functional connectivity profiles predict trial-by-trial success in a navigation task”,
Poster, *Open Human Brain Mapping*;
Poster, *Society for Neuroscience*
Poster, *Cognitive Neuroscience Society*

Hatamian, N., **Woodry**, R. F., Tranquada-Torres, B., Chrastil, E. R. (2021) “The relationship between navigation abilities and mental disorders”,
Poster, *Society for Neuroscience*

Poster, Cognitive Neuroscience Society

Woodry, R. F., & Yurgil, K. (2019) “Evidence for a hierarchy of prediction errors: vMMNs in response to deviation and omission”,
Talk, Louisiana Academy of Sciences annual meeting;
Poster, Cognitive Neuroscience Society

Additional Experience

Diversity Equity & Inclusion Committee
New York University, Dept. of Psychology, Student Representative 2024

Vision Journal Club
New York University, Co-Host 2021 - 2023