





# JONATHAN DRUCKER

NEUROSCIENCE | PROJECT MANAGEMENT | DATA SCIENCE | BUSINESS DEVELOPMENT

## CONTACT

-  (813) 766-0527
-  jonathan@humannexus.net
-  [www.linkedin.com/in/jonathan-h-drucker](http://www.linkedin.com/in/jonathan-h-drucker)
-  Philadelphia / Remote

## SKILLS

Neuroscience (EEG, fNIRS, TMS, tES, fMRI)  
Data science (Keras, PyTorch, sklearn)  
Statistics (R, Python, SPSS)  
Python development  
Business development  
Technical writing  
Project management (PMI certified)

## EDUCATION



Postdoctoral fellowship in  
Neurocognitive Rehabilitation (2016)  
Atlanta VAMC



Ph.D. in Psychology (2015)  
Emory University



B.S. in Symbolic Systems (2008)  
Stanford University

## CERTIFICATIONS

Project Management Professional (2021)  
Project Management Institute (PMI)  
Data Science Professional (expected. 2024)  
IBM  
Human Subjects Projection - Biomedical  
CITI

## WORK EXPERIENCE

### Independent Consultant

HumanNexus Neuroscience Consulting, LLC  
Philadelphia, PA 2024 - present

- Provides proposal generation, data analysis, and business development services

### Neuroscientist

Aptima, Inc.  
Philadelphia, PA 2020 - 2024

- Lead scientific and technical work regarding neuroscience and human factors
- Developed and maintained relationships with key stakeholders
- Conducted statistical analyses of multimodal neuro-physiological data
- Implemented machine learning models of neuro-physiological data
- Led the production of technical reports, proposals, and published papers

### Scientific Consultant

Brain Vision, LLC.  
Morrisville, NC 2016 - 2020

- Consulting:** discussed theory, hypotheses, experimental design, and methodologies with users in neuroscience, psychology, and other fields
- Sales:** generated leads, facilitated sales, managed customer and vendor relationships
- Business Development:** attended conferences and conducted demonstrations and workshops. Total: 26 conferences and 29 demonstrations/workshops
- User Training:** installed hardware/software onsite, instructed labs virtually and in-person on methods. Total: 28 onsite visits
- Subject Matter Expertise:** EEG, TMS, tDCS/tACS, fNIRS, fMRI, Source localization
- Support:** solved hardware/software issues, advised users on best practices

### Postdoctoral Associate

Atlanta VA Medical Center / Emory University  
Atlanta, GA 2012 - 2016

- Led a study using TMS to investigate language function in older adults
- Led a study using fMRI to investigate Parkinson's disease
- Developed a Bash pipeline for analyzing fMRI data
- Performed data preprocessing and statistical analyses for both studies

## FUNDING

DHA Phase I SBIR - W81XWH-22-P-0129 Drucker (PI) 2022-2023  
FRANC I: In-helmet, flight-ready EEG \$250,000

AFWERX Phase II STTR - FA864922P0734 Drucker (PI) 2022-2023  
NeuroAdapt II: Brain-computer interface (BCI) to enhance training \$750,000

NAWCAD Phase I SBIR - N683352200401 Drucker (PI) 2022-2023  
MAVIS I: Neuroscience of spatial disorientation in virtual reality \$150,000

AFWERX Phase I STTR - FA864921P0735 Drucker (PI) 2021-2021  
NeuroAdapt I: BCI for air traffic control training enhancement \$50,000

USSOCOM Phase II STTR H9240521C0004 Drucker (Key personnel) 2020-2022  
RESTORE II: Sleep assessment and restoration \$1,293,540

USAMRDC Competition XTechBolt Round 1 Drucker (PI) 2020-2020  
BOLT BCI: BCI for air traffic control training enhancement \$10,000