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https://nicholdav.info https://github.com/NickleDave

Skills Summary

- Applied machine learning, deep learning, data science and software engineering in Python: 4+ years
 - o libraries: numpy, scipy, matplotlib, Tensorflow, PyTorch, scikit-learn, pandas, seaborn
- Data exploration, analysis, statistics, and visualization in MATLAB: 6+ years
- Project management, technical communication, teaching, tutoring, mentoring: 8+ years

Experience

Machine Intelligence Engineer, Embedded Intelligence, DC metro area

November 2019-Present

• work on adversarial machine learning (DARPA <u>GARD</u> and <u>RED</u> programs) and signal restoration

Postdoctoral fellow, Prinz lab, Emory University, Atlanta, GA

April 2018-October 2019

• Developed continual machine learning algorithms based on neuroscience of goal-driven perception: https://github.com/NickleDave/MetaNickleDave#visual-search-and-visual-attention

PhD in Neuroscience, Sober lab, Emory University, Atlanta, GA **Postdoctoral fellow**

March 2011-August 2017

September 2017-March 2018

- Developed libraries to automate annotation of animal vocalizations (see also publications): https://github.com/NickleDave/MetaNickleDave#data-science-tools-for-birdsong-and-other-vocalizations
- Designed, carried out, and published experiments that identified novel connections between brain areas that control vocalization in a songbird: https://onlinelibrary.wiley.com/doi/full/10.1002/cne.24428

Organizer, Emory graduate data science group

August 2017-Present

- Organized meetings, events, and online presence: https://data-science-for-scientists-atl.github.io/
- Helped group successfully apply for a charter and secure annual budget from graduate student government
- Successfully requested funding from other groups on campus for two well-attended Software Carpentry workshops, e.g., https://data-science-for-scientists-atl.github.io/2019-02-09-emory/

Education

- Ph. D. in Neuroscience, Emory University, Atlanta, GA. August 2017.
- B.S. in Biology (Summa Cum Laude), University of South Florida, Tampa, FL. Minor in Spanish. May 2010.

Languages

Native English speaker.

Spanish. Conversational level: fluent; written level: academic.