alexander flyax

8924 Pottawattami Dr.
Skokie, IL 60076
aflyax@gmail.com
http://github.com/aflyax
http://aflyax.github.io
twitter.com/aflyax
LinkedIn

Key Strengths

- Data analysis/mining algorithms and machine learning using Python (IPython, Pandas, scikit-learn, XGBoost, numpy, Bokeh), MATLAB, Julia
- Deep learning (theano, lasagne, no-learn, PyBrain, keras)
- Data visualization (matplotlib, seaborn, Bokeh, Adobe Illustrator, Power Point, FIJI, Igor Pro)
- Participant in Kaggle competitions (top 1.5%)
- Comfortable working in Windows and Linux environments
- Oral and written presentations (extensive experience with Microsoft Office), public speaking
- Object-oriented and functional programming (exposure to C, C++, Java, VB, Python, Julia, R)
- Analytical problem solving, experimental design, technical troubleshooting
- Scientific literature search and bibliography preparation using Mendeley and Zotero
- Established track record in completing large-scale projects on schedule, use of GitHub
- Can speak and write freely in Russian as well as in English, experience with translations

Education

- B.S. — Computer Information Systems. 2001–2005. Tulane University. GPA: 3.9
- B.S. — Neuroscience. 2001–2005. Tulane University. GPA: 3.8
- Ph.D. — Neuroscience. 2005–2013. Brandeis University. GPA: 3.8

Relevant work experience

- University of Texas, San Antonio: post-doctoral researcher — June 2014 – present
  - Visualized/presented data using Matlab, Python, Illustrator, Power Point
  - Wrote scripts for electrophysiology data analysis using Matlab and Python
  - Research paper in preparation
- Brandeis University: post-doctoral researcher — Aug 2013 – June 2014
  - Wrote scripts and analyzed data using Matlab
  - Acquired and visualized electrophysiology data using Igor Pro
  - Several research papers in various stages of submission/revision
- Brandeis University: Ph.D. candidate — Aug 2005 – Aug 2013
  - Collected, analyzed, and presented electrophysiology data using Matlab
  - Analyzed confocal images of fluorescent neurons using FIJI and Matlab
  - Lectured: Principles of Neuroscience, General Biology Lab
- Tulane University: B.S. student, undergraduate independent researcher — Aug 2001 – June 2005
  - IT assistant (Howard-Tilton Memorial Library)
  - Tutor of Calculus, Statistics, Biology, Russian, Neuroscience
  - Worked in multiple laboratories as an undergraduate researcher

Awards and honors

- Jack Kent Cooke Foundation Undergraduate Scholar, 2003–2005
- Putnam Cultural Enrichment Program Grant, Tulane University, New Orleans, LA, 2004
- Honors College, Tulane University, New Orleans, LA, 2002–2005
- Dean's List, Tulane College, New Orleans, LA
- Valedictorian Scholarship, Tulane University, New Orleans, LA, 2001
- Founders Scholarship, Tulane University, New Orleans, LA, 2001
- High School Valedictorian (magna cum laude), Robert E. Lee High School, Baton Rouge, LA, 2001