

# alexander flyax:

Chicago area (open to relocation)

— data scientist with a background in Cellular and Circuit Neuroscience

[aflyax@gmail.com](mailto:aflyax@gmail.com)

<http://github.com/aflyax>

<http://aflyax.github.io>

[twitter.com/aflyax](https://twitter.com/aflyax)

[LinkedIn](#)

## Key Strengths

- Data analysis and machine learning algorithms (semi-/un-/supervised) using Python (IPython, Pandas, scikit-learn, numpy, Bokeh), R, MATLAB, Julia
- Linear regression, KNN, ensemble methods (gradient boosting classifiers and regressors), SVMs, deep learning, clustering, feature generation, model optimization
- Data visualization (matplotlib, seaborn, Bokeh, Adobe Illustrator, FIJI, Power Point, 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
- Analytical problem solving, experimental design, technical troubleshooting
- Can speak and write freely in Russian, 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