DanielLaCombe
Ph.D. Candidate | CTO, VoxelRx

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3375 Jaywood Terrace
Apartment Unit J104
Boca Raton, FL 33431

Contact
302.312.3975
dlacombe2013@
fau.edu

Web & Git
voxelrx.com
dlacombejr.github.io
github.com/dlacombejr
kaggle.com/dlacombejr

Programming
Python, Theano,
Keras, TensorFlow
scikit-learn
NumPy, SciPy
AWS, EC2, S3, boto
Matlab
Weka
LATEX, Git
NetworkX, NLTK

Skills
Coding
Writing
Public Speaking

Hobbies
Music Composition
Instrumental
Progressive
Ambient
Mathrock
Rock Climbing
Bouldering
Lead/Sport

Reference
Elan Barenholtz
FAU, Psychology
561.297.3433
elan.barenholtz@
fau.edu

Education

2013 - Now   **Ph.D., Psychology exp. May 2017**   Florida Atlantic University, Boca Raton, FL
Advisor: *Elan Barenholtz*
Dissertation: *Emergence of Taxonomical Categories in Deep Learning*

2011 - 2013   **M.A., Experimental Psychology**   Appalachian State University, Boone, NC
Advisor: *Christopher A. Dickinson*
Thesis: *Semantic Consistency in Boundary Extension*

2007 - 2011   **B.A., Psychology**   University of Delaware, Newark, DE
Advisor: *James E. Hoffman*

Experience

2013 - Now   **Graduate Research**   Florida Atlantic University, Boca Raton, FL
// Investigating deep learning models for unsupervised representation learning of semantic taxonomies based on statistics of natural images
// Explored novel feature extraction methods for predictive decoding of user intentions based on recorded eye movements using machine learning algorithms and advanced quantitative methods for feature extraction

2014 - Now   **Chief Technology Officer**   VoxelRx, Boca Raton, FL
// Developed and maintained software for automatically detecting neurodegenerative diseases from structural Magnetic Resonance Imaging data
// Beginning to manage software development team as we expand and also seeking external consultancy contracts for machine learning

Awards

2015 - 2016   **1st Place Poster Brain Sciences Graduate Research Day FAU**
2015 - *Task Decoding Using Recurrent Quantification of Eye Movements*
2016 - *Emergence of Semantic Continuity in Deep Neural Networks*

2016   **4th Place in CrowdAnalytix Data Science Competition**
// Competition title – "*Extraction of product attribute values*"
// Novel application of deep learning techniques to RegEx problem

2016   **Singularity University Global Impact Challenge Runner-up**
One of four given opportunity to interview based on pitch of VoxelRx

2015   **FAU Graduate Research and Inquiry Program Grant**
Awarded $1,500 to cover GPU cloud costs for researching deep learning

2013 - 2015   **Florida Atlantic University Presidential Fellowship**
Awarded as recruitment incentive for superior doctoral students

Publications

Hahn, W. E., Lewkowitz, S., Lacombe Jr., D. C., & Barenholtz, E. (2015). Deep learning human actions from video via sparse filtering and locally competitive algorithms. Multimedia Tools and Applications, 1-14.

Dickinson, C. A., & LaCombe Jr., D. C. (2014). Objects influence the shape of remembered views: Examining global and local aspects of boundary extension. Perception, 43, 731-753.

Dickinson, C., LaCombe, D., Nichols, J., Hinnant, S., Rickard, E., & Sternbergh, X. (2012). Using boundary extension to assess memory for scene views across changes in object orientation. Journal of Vision, 12, 1071-1071.