










**Ellis L. Brown II***Curriculum Vitae*

<b>CONTACT INFORMATION</b>	364 W. 18th St. Apt. 2E New York, NY 10011	 <a href="#">ellisbrown</a>  5uEnUAAAAJ  <a href="#">ellislbrownii</a>	 <a href="http://ellisbrown.me/">http://ellisbrown.me/</a>  <a href="mailto:ellis.l.brown.ii@gmail.com">ellis.l.brown.ii@gmail.com</a>  +1 (314) 761-1662
<b>RESEARCH INTERESTS</b>	Deep Learning • Artificial Intelligence • Computer Vision • Machine Learning Cognitive Science • Neuroscience • Brain-Computer Interfaces		
<b>EDUCATION</b>	<b>Vanderbilt University</b> , Nashville, TN <i>Bachelor of Science</i> , Computer Science <i>Bachelor of Arts</i> , Mathematics Aug 2013 – <b>May 2017</b>		
<b>ADVANCED COURSEWORK</b>	Machine Learning • Artificial Intelligence • Web-based System Architecture • Big Data Computer Networks • Coding Theory & Cryptography • Number Theory • Algorithms Probability & Statistics • Program Design & Data Structures		
<b>PROGRAMMING SKILLS</b>	<i>Languages:</i> Python • JavaScript • Java • MATLAB • TypeScript • C++ • Bash • $\text{\LaTeX}$ <i>Frameworks:</i> PyTorch • Torch • SKLearn • NLTK • AWS • Angular2 • Node.js • <b>git</b>		
<b>RESEARCH EXPERIENCE</b>	<i>Research Assistant</i> Jan 2017–present <b>Artificial Intelligence and Visual Analog Systems Lab</b> , Vanderbilt University School of Engineering – Nashville, TN <ul style="list-style-type: none"> <li>• Researcher under direction of Dr. Maithilee Kunda on ONR funded project aiming to understand mechanisms human brain uses to solve spatiotemporal visual search tasks.</li> <li>• Lead author on paper submitted for review to <b>AAAI-18 Conference</b> Sep 2017</li> <li>• Gave oral presentation at <b>AISES National Conference</b> Sep 2017</li> <li>• Working alongside two graduate students to create a novel image classification dataset to be used in training deep neural networks.</li> </ul>		
<b>OPEN SOURCE EXPERIENCE</b>	<b>SSD.PyTorch</b> <a href="#">GitHub:// amdegroot/ssd.pytorch</a>  22  326  93 Mar 2017–present PyTorch Implementation of Single Shot MultiBox Detector <ul style="list-style-type: none"> <li>• Worked with Max de Groot to implement and maintain a PyTorch version of the unified framework for real-time object detection using a single network outlined in Wei Liu's paper [arXiv:1512.02325v5]</li> <li>• Made the code clear, concise, and as true-to-the-paper as possible with extensive documentation and commenting. Snippets are cited by multiple online textbooks &amp; blogs • <a href="#">Medium</a> • <a href="#">L. Santos AI GitBook</a> • <a href="#">The Incredible PyTorch</a></li> </ul>		
	<b>DeepGenres.Torch</b> <a href="#">GitHub:// amdegroot/deepgenres.torch</a> May 2017 Deep convolutional neural network for audio classification of music genres.		
<b>TEACHING EXPERIENCE</b>	<i>Teaching Assistant and Grader</i> , under Dr. Jerry Roth Fall 2015 <b>Program Design &amp; Data Structures</b> , Vanderbilt University School of Engineering – Nashville, TN <ul style="list-style-type: none"> <li>• Debugged and assessed weekly programming assignments and exams</li> <li>• Held weekly office hours for class of 160+ students.</li> </ul>		

<b>PROFESSIONAL EXPERIENCE</b>	<i>Software Engineer</i>	Jul 2017–present
	<b>BlackRock</b> , Aladdin Product Group, Core Data Team – New York, NY	
	<i>Software Engineering Intern</i>	Summer 2016
	<b>BlackRock</b> , Aladdin Product Group – New York, NY <ul style="list-style-type: none"> <li>• <i>Full-Stack Developer</i> – Wrote Angular2 webapp for Cash Reconciliation Rule Management using TypeScript with SpringMVC Java back-end.</li> <li>• <i>Intern Hackathon Winner</i> (Team of 4) – Structuring Unstructured Data at Scale PDF Parsing, NLTK Named Entity Recognition, SKLearn Decision Tree prediction, Angular2 web interface</li> </ul>	
	<i>Software Engineering Intern</i>	Summer 2015
	<b>Exegy</b> , Real Time Market Data Solutions – Saint Louis, MO	
	<ul style="list-style-type: none"> <li>• Overhauled Data Entitlements system with Python script to populate SQL db</li> </ul>	
<b>COMMUNITY SERVICE</b>	<i>Volunteer</i> , Manna Project International, Corozal Town, Belize	Mar 2016
	<ul style="list-style-type: none"> <li>• Constructed a new house for Jacob's Farm, the country's only drug and alcohol rehabilitation farm in a rural village called Patchakan</li> </ul>	
<b>EXTRA-CURRICULAR ACTIVITIES</b>	<i>Tour Guide</i> , Vanderbilt Admissions	2014-16
	Elected <i>Captain &amp; President</i> , Vanderbilt Water Polo Club	2014-16
	<ul style="list-style-type: none"> <li>• SEC Champions, competed in CWPA National Championship</li> </ul>	2014
	Elected <i>Social Chairman</i> , Kappa Sigma Fraternity (Kappa Chapter)	2014-16
	<ul style="list-style-type: none"> <li>• Managed \$45k semi-annual budget; served on chapter's Executive Council</li> <li>• Selected to represent Kappa Chapter at: <ul style="list-style-type: none"> <li>– Kappa Sigma National Leadership Conference</li> <li>– Vanderbilt Greek Emerging Leaders Program</li> </ul> </li> </ul>	Summer 2014 Fall 2014
	USA Water Polo	2010-13
	<ul style="list-style-type: none"> <li>• Junior Olympics</li> <li>• Olympic Development Program</li> </ul>	2012, 2013 2010-13
	1 <sup>st</sup> BlackRock NYC Intern Hackathon	2016
	<i>Finalist</i> , BlackRock Founder's Scholarship	2016
	<i>Finalist</i> , Google Lime Scholarship	2016
<b>AWARDS</b>	<i>Finalist</i> , Lime Connect Fellowship	2015
	<i>All-Conference</i> , SEC Second Team, Water Polo	2014
	<i>Academic All-American</i> , USA Water Polo	2012, 2013
<b>SOCIETIES</b>	American Indian Science and Engineering Society (AISES)	
	Lime Connect Network for Students with Disabilities	
<b>PUBLICATIONS</b>	<b>Brown, E. L., II</b> , Seiffert, A. E., Warford, N., Park, S., & Kunda, M. (2017, Sept. 21). <i>Computational Cognitive Systems to Model Information Salience</i> . Presented at the American Indian Science and Engineering Society National Conference, Denver, CO.	
	Park, S.*, <b>Brown, E. L., II*</b> , Warford, N.*, Seiffert, A. E., Kawamura, K., Lappin, J. S., & Kunda, M. (2017, Sept. 11). <i>A Computational Cognitive Architecture to Model Human Visual Search for Spatiotemporal Targets</i> . Submitted to AAAI-18.	
	*These authors all contributed equally to this research	