

## Alexander Spangher

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EDUCATION	Columbia University, M.S. in Journalism	Class of 2018
	Columbia University, M.S. in Data Science	Class of 2017
	Columbia University, B.S. in Neuroscience and B.S. in C.S.	Class of 2014
RELEVANT EXPERIENCE	New York Times, NYC, NY <i>Data Scientist</i>	2014- present
	<ul style="list-style-type: none"><li>Designed and implemented LDA-based article recommendation algorithm, scaled to all users. Built using Luigi-powered data pipelines, MySQL data storage, and WSGI API layer. See blogpost: <a href="https://open.blogs.nytimes.com/2015/08/11/building-the-next-new-york-times-recommendation-engine/">https://open.blogs.nytimes.com/2015/08/11/building-the-next-new-york-times-recommendation-engine/</a>.</li><li>Launched ML tools to improve newsroom processes. Used unsupervised variational and embedding approaches and NLP feature engineering. Designed architecture using Google Cloud Services: DataStore, GKE and BigQuery.</li><li>Used MTurk to crowd-source emotion-tags for articles. Constructed classifiers to learn these tags with deep and shallow approaches. Developed distributed gridsearch pipeline using Spark and CloudML to explore parameter space.</li><li>Designed Bayesian models for Followable-recommendation algorithm. Implemented using Scipy optimization packages.</li><li>Explored extensions of article-recommendation algorithm using multi-armed and contextual bandit algorithms.</li><li>Conducted statistical analyses of audience segments and assessed causal impact of new products.</li></ul>	
	Huffington Post, NYC, NY <i>Software Engineering Intern</i>	Summer 2013
	<ul style="list-style-type: none"><li>Redesigned the core framework of the user-profile API using Scala.</li><li>HuffPost Hires app (Angular/Clojure/MongoDB). Improved interview process.</li></ul>	
	SustainabilityExcellence, Amman, Jordan <i>Consulting Intern</i>	Summer 2012
	<ul style="list-style-type: none"><li>Built MYSQL framework for Emir of Qatar's Sustainability Conference.</li></ul>	
ADDITIONAL EXPERIENCE	<b>New York Times: Diversity Initiatives:</b> <i>Co-chair and Founder</i> of the New York Times Young Professionals Network. <i>Acknowledged contributor</i> to Unpublished, a photo-novel on Black history.	
	<b>Marvel Theater:</b> <i>Double Bassist</i> for critically-acclaimed off-Broadway play.	
ACADEMIC HONORS and LEADERSHIP	<b>John Jay Scholar:</b> Neuroscience and Computer Science, Columbia University.	
	<b>Dean's List:</b> Columbia College	
	<b>Scholarships:</b> Intel STS Semi-finalist, National Merit Scholarship	
	<b>Op-Ed Writer:</b> Weekly Blogger at Columbia Spectator.	
	<b>Languages &amp; Software used in production:</b> Python, SQL, D3.js, Javascript, JQuery, Java, Scala, C, C++, CUDA, OpenCL, L <sup>A</sup> T <sub>E</sub> X. Google Cloud Services, Amazon Web Services. Spark, DataBricks. Kubernetes, Docker, Drone. SkLearn, Tensorflow, Keras, CVXOpt. NVIDIA.	