Maury Courtland

Durham, NC

✉ maury.courtland@gmail.com ^{www} maury.science

Expertise in NLP, Machine/Deep Learning, Computer Vision, and Document Processing

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Education

University of Southern California (USC) - Ph.D. in Linguistics	Aug. '14 - Aug. '19
M.S. in Computer Science	Aug. '18
M.A. in Linguistics	May '16
Haverford College - B.A. in Linguistics and Languages; Chinese Minor	Aug. '09 - Dec. '12

Relevant Experience

Manager - Machine Learning Engineering, Doma :   Sep. '22 - Present
- Led team developing custom best-in-class NLP solutions for document processing
- Managed relationships between direct reports, product, business, and engineering

Sr. Machine Learning Engineer, Doma :   Oct. '21 - Sep. '22
- Developed DL models to solve complex problems in a completely new domain
- Productionized NLP & CV models at scale on kubernetes cluster

Data Science (NLP) Manager, Capital One :   Feb. '21 - Sep. '21
- Led team developing and productionizing deep NLP models at scale
- Improved remote team culture, published and patented as a team

Principal Data Scientist (NLP), Capital One :   Sep. '19 - Feb. '21
- Developed State of the Art deep NLP models using PyTorch on AWS ecosystem
- Drove organization-wide research engagement, published and patented work

Language Variety and Media Diet's Effect on Cognitive Testing, USC :   May '18 - Aug. '19
- Built language models to model cognitive effect of media consumption
- Performed statistical analyses and published at conferences

SPAN Group Researcher, USC :   Summer '16 - Winter '18
- Improved image processing software to model speech articulation
- Operated in Linux high performance computing environment for MRI video processing

Cross-linguistic Application of Distributed Representations, USC :   Spring '16
- Used neural word embeddings to study cross-linguistic sentiment analysis
- Crawled webpages, manipulated and classified large text corpora

Computational Linguistics Consultant, Oben :   Sep. '15 - Jan. '16
- Built computational linguistics software to improve speech elicitation materials
- Developed linguistically (phonologically) optimal speech stimuli

Skills

Highly Proficient in: Python, Linux, SQL, & MATLAB; *Intermediate in:* HTML and Javascript

Preferred ML stack: Python, PyTorch (+/- Lightning), Hugging Face, sklearn, spaCy, NumPy, SciPy, pandas, MLflow, Streamlit, Docker, Kubernetes, Snowflake

Conversational in: Spanish; *Advanced:* Hebrew; *Intermediate:* Mandarin; *Basic:* Arabic

Honors and Awards

NIH Pre-doctoral Fellow, USC	'15 - '17
Provost's Fellow, USC (USC's Highest Ph.D. Funding)	'14 - '19
Phi Beta Kappa Honor Society, Haverford College	Spring '13
Graduated with High Honors, Haverford College	Spring '13