

COLIN QUIRK

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EDUCATION

University of Chicago Ph.D. in Psychology*	Expected 2021
Hampshire College B.A. in Cognitive Neuroscience	2015

WORK EXPERIENCE

<i>SparkNeuro - Senior Machine Learning Engineer</i> <ul style="list-style-type: none">- Helped design experiments and create multiple machine learning models- Created tools to be used by the data science team for deploying models- Tools used: python, R	Sept 2020-Present
<i>Allstate - Data Science Intern</i> <ul style="list-style-type: none">- Created a model using xgboost to predict likelihood of a quote binding- Made multiple contributions to shared machine learning libraries- Tools used: SQL, pyspark, R	Summer 2019

RELEVANT ACADEMIC PROJECTS

<i>Classifying individuals with eyetracking data using deep learning</i> <ul style="list-style-type: none">- Organized and cleaned 20GB of eye tracking data- Classified individual segments of eye tracking with 60% accuracy (chance = 3%) using CNNs- Tools used: Python (fastai/PyTorch), R (data cleaning)	
<i>Spatial Biases Influence Encoding of Information into Working Memory</i> <ul style="list-style-type: none">- Reanalyzed experiments with a large number of participants (>470000 trials analyzed)- Combined data from multiple, existing sources to address research questions- Used k-means clustering to generate factors in datasets that were missing critical information- Tools used: Python (experiment code), R (analyses/visualization)	
<i>Replication of Working Memory Research using EEG</i> <ul style="list-style-type: none">- Ran multiple behavioral and EEG experiments- Used Bayesian regression models to assess if our work replicated the previous literature- Tools used: Matlab (experiment code), R (analyses/visualization)	

TEACHING

Experimental Design I & II (Assistantship - assisting with course design)	2020
Psychological Research Methods (Primary Instructor)	2020
Psychological Statistics (Assistantship)	2018