

Weifeng Hu

Phone: 206-459-9734

Email: weifhu@umich.edu

Homepage: <https://weifhu0124.github.io/>

EDUCATION	University of California – San Diego, CA 06/2020 Master of Science, Computer Science Engineering GPA 3.90/4.00 <ul style="list-style-type: none">• Thesis: <i>A Data-Driven Study of Cross-Cultural Social Impressions on Faces</i>• Relevant Coursework: Neural Networks, Natural Language Processing, Recommender System
	University of Michigan – Ann Arbor, MI 05/2018 Bachelor of Science in Engineering, Computer Science GPA 3.83/4.00 <ul style="list-style-type: none">• Graduated with the highest distinction - Summa Cum Laude• Relevant Coursework: Machine Learning, Data Mining, Computer Vision, Security
SKILLS	Language Java, C/C++, Python, C#, JavaScript, MATLAB, SQL, MySQL Computer Hadoop (MapReduce), Windows, Visual Studio, Android Studio, LaTeX, Linux
EXPERIENCE Industry	Amazon Web Services Seattle, WA Software Development Engineer II 04/2022 - Current <ul style="list-style-type: none">• Designed a scalable ETL data pipeline that derived search metrics from user activities and stored them into a data lake. <i>Skills:</i> Java, Spark, AWS Glue, AWS S3, AWS Athena, AWS QuickSight
	Software Development Engineer I 08/2020 - 04/2022 <ul style="list-style-type: none">• Migrated website to client-side rendering that brought a modern, accessible UI and expanded number of trackable metrics.• Redesigned a backward-compatible similarity model API that improved discovery for broader similar documents.• Designed a distributed ingestion architecture that allowed bulk document update requests.• Scaled Elasticsearch cluster vertically and horizontally that stabilized the backend index. <i>Skills:</i> Java, React, RESTful API, Python, AWS Elasticsearch, AWS SageMaker
	Software Development Engineer Intern 06/2019 - 09/2019 <ul style="list-style-type: none">• Developed text processing modules that optimized existing methods of obtaining syntax usage.• Wrote an abstract syntax tree to JSON parser that streamlined the analysis of the tree content. <i>Skills:</i> Java, AWS DynamoDB
	DiDi Chuxing Beijing, China Machine Learning Engineer Intern 05/2018 – 08/2018 <ul style="list-style-type: none">• Built an XGBoost model that predicted the completion rate based on the features of ride requests.• Extended the model by analyzing big data that determined the minimum drivers needed. <i>Skills:</i> Python, XGBoost
	The MathWorks Inc. Natick, MA Software Engineering Intern 05/2017 – 08/2017 <ul style="list-style-type: none">• Implemented the initial version of a data visualization view that plotted parameters in JavaScript.• Added keyboard navigation feature and corresponding unit tests that enhanced user experience. <i>Skills:</i> JavaScript, MATLAB
	Gocom Information & Technology LLC Hefei, China Software Developer Intern 05/2016- 08/2016 <ul style="list-style-type: none">• Developed Railway Automatic Testing Software with TCP/IP Socket in C# that improved testing efficiencies for human testers.• Designed the communication protocol between programs that set up different testing conditions.

Research	Cross-culture Facial Impression Research Research Assistant • Developed a single deep neural network that predicted the ratings on 18 social impression traits. • Worked on a GAN model that analyzed the effect of different physical attributes of the images. • Built a website and performed statistical analysis that built groundwork for our studies.	San Diego, CA 01/2019- 03/2020
	Statistics and Visualization of Tornado Data Point-Patterns Research Assistant • Visualized tornado landing intensity in the US for the past five decades. • Applied kernel smoothing in a convolutional manner that provided interesting statistics.	Ann Arbor, MI 10/2015- 04/2016
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PUBLICATION	Hu, W. A Data-Driven Study of Cross-Cultural Social Impressions on Faces (Publication No. 27834166) [Master dissertation, University of California, San Diego]. ProQuest Dissertations and Theses database. Hu, W.* , Song, A.*, Yadav, D., Wen, F., Zuo, B., Vul, E., and Cottrell, G. Do you see what I see? A cross-cultural comparison of social impressions of faces. In <i>Proceedings of the 42nd Annual Conference of the Cognitive Science Society</i> , pp. 1714-1720. (* equal contribution) Hu, W. , and Yang, R. Predicting the success of Kickstarter projects in the US at launch time. In <i>Intelligent Systems and Applications</i> (Cham, 2020), Springer International Publishing, pp. 497–506.	
TEACHING	Neural Networks & Pattern Recognition Recommender System & Web Mining	Winter 2020 Fall 2019
PROJECT	Democrats vs. Republicans Tweet Sentiment https://github.com/weifhu0124/democrat_republican_tweets Automatic Comment Generation for Python Code https://github.com/weifhu0124/Code_to_Comment Superspreader Detection in the Dataplane https://github.com/weifhu0124/Superspreader_Detection GAN on MNIST Tutorial https://github.com/weifhu0124/gan Pedestrian Alert! https://github.com/weifhu0124/person_detect Call Me Maybe Android App https://github.com/weifhu0124/Call-Me-Maybe-AndroidApp	
AWARD	Graduate Student Association Travel Grant College of Engineering Class of 1935 Scholarship Dean’s List University Honors James B. Angell Scholar	UC San Diego University of Michigan University of Michigan University of Michigan University of Michigan