

Ming-Chang Chiu

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EDUCATION

University of Southern California (USC)

Los Angeles, CA

Ph.D. in Computer Science

Aug 2018 – May 2022 (Expected)

- Advisor: Professor Shrikanth S. Narayanan
- Areas of Specialty: Natural Language Processing
- GPA: 3.92

University of Southern California (USC)

Los Angeles, CA

Master of Science (M.S.) in Electrical Engineering

Aug 2016 – May 2018

- Advisor: Professor Stefan Scherer
- Areas of Specialty: Data Science & Digital Signal Processing
- GPA: 3.82

National Tsing Hua University (NTHU)

Hsinchu, Taiwan

Bachelor of Science (B.S.) in Computer Science & Electrical Engineering
Jun 2015

Sep 2011 –

- Advisors: Professor Min Sun and Jerry Chou
- Last 60 GPA: 4.05 / 4.30; Cumulative GPA: 3.82 / 4.30

University of Minnesota

Twin Cities, MN

Exchange Student in Computer Science and Engineering

Fall 2014

- GPA: 4.0

Tsinghua University

Beijing, China

Summer Exchange Student in Computer Science

Summer 2012

PUBLICATIONS

- Ming-Chang Chiu, Tiantian Feng, Xiang Ren, Shrikanth Narayanan. Screenplay Quality Assessment: Can we predict who wins the Award? *Submitted to ACL 2020*
- V. Martinez, A. Ramakrishna, Ming-Chang Chiu, K. Singla, and S. Narayanan. A system for the 2019 Sentiment, Emotion and Cognitive State Task of DARPA's LORELEI project. In *Proceedings of the 8th International Conference on Affective Computing & Intelligent Interaction*, September 2019. (Oral Presentation)

WORK

EXPERIENCES

Signal Analysis and Interpretation Lab (SAIL), USC [Link](#)

Los Angeles, CA

Research Assistant

Aug 2018 – Present

- Working on domain-specific feature extraction and Neural Network architectures for narrative quality assessment
- Working on statistical consistency measure in linguistic behavior
- Worked on Sentiment, Emotion, Cognitive state task of DARPA LORELEI project

Institute for Creative Technologies

Los Angeles, CA

Researcher [Project: Conversation Quality Assessment]

Jan 2017 – Dec 2017

- Trained Long Short Term Memory (LSTM) deep learning model and word embeddings for behavioral modeling based on Fisher and alcoholism treatment data
- Predicted new conversation and treatment session quality reaching 75% accuracy
- Generated conversation snapshots on top of Fisher dataset and created Amazon Mechanical Turk jobs to collect objective assessments from people

Illumina, Inc.

San Diego, CA

DevOps Applications Intern

May 2017 – Aug 2017

- Built a machine learning Cron for analyzing jobs in the High Performance Computing cluster to identify “destined to fail” jobs using Sci-kit learn, reaching 95% accuracy
- Developed a deep learning Daemon that constantly loads new samples from database (Hive) to train a classification model using Mini-batch update technique with TensorFlow, achieving 78% accuracy
- Maintained enterprise Atlassian Jira and Confluence; created customer workspaces for internal clients

ACADEMIC**Grader**, University of Southern California

Spring 2018

EXPERIENCE

CS599 Special Topics: Content Detection and Analysis for Big Data

SKILLS

Languages: Python, C/C++, MATLAB, Ocaml, Java, HTML/CSS, PHP, SQL, JavaScript
Technologies & API: PyTorch, Docker, TensorFlow, OpenMP, Hadoop, Spark

RELATED

Advanced Topics in Representation Learning for NLP, Advanced Algorithms, Machine
COURSEWORK Learning for Knowledge Extraction and Reasoning, Dialogue Systems, Affective Computing

HONORS

Kaggle Silver Medal (top 4% out of 5,332 teams), Porto Seguro’s Safe Driver Prediction
& AWARDS 2017

Celebrating the Viterbi Algorithm Through Art 2017

Honorary Member of Phi Tau Phi Scholastic Society 2015

Excellent Study Group Award, NTHU 2015

National Tsing Hua University International Exchange Scholarship 2014