Kaitlin Chaung

Researcher, Data Scientist

Passionate about natural language, genomics, and the space in between

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WORK EXPERIENCE

Data Scientist
Metis

06/2020 - 09/2020

Achievements/Tasks

- Developed 5 projects as part of an immersive data science bootcamp

Staff Researcher
Center for Advanced Technology, UCSF

01/2017 - 06/2020

Achievements/Tasks

- Developed analysis pipelines for ATAC-seq data for a genetic interaction mapping of histone mutants
- Conducted sequencing and data demultiplexing for DNA sequencing libraries
- Worked towards developing new sequencing techniques for single cell open chromatin mapping
- Developed new techniques and analysis pipelines for long-insert sequencing of B-cell receptors

Undergraduate Researcher
Momeni Lab, Boston College

01/2016 - 12/2017

Achievements/Tasks

- Helped to maintain models of synthetic microbial communities to better understand and optimize community-level functions of cell types and their metabolites

Undergraduate Researcher
Walbott Lab, Stanford University

05/2016 - 08/2016

Achievements/Tasks

- Utilized whole genome bisulfite sequencing data to better understand siRNA generation and maintenance in maize anthers

Undergraduate Researcher
Chiles Lab, Boston College

09/2015 - 05/2016

Achievements/Tasks

- Conducted protein-based and FACS experiments to better understand glucose energy metabolism of naive B lymphocytes in mice

PERSONAL PROJECTS

Empathetic Text Generator (08/2020)
- Developed an empathetic conversational text generator, utilizing BERT sentiment classification and masked language model

Movie Genre Classifier (07/2020)
- Developed a movie genre classifier, utilizing movie scripts and the contextual change of scripts over time

Paper Citation Predictor (06/2020)
- Developed a regression model to predict the citation count of an academic paper, utilizing the text topics of the abstract and their change in relevancy over time

Undergraduate Presenter, Big Data Symposium, Boston College (04/2016)
- Developed image recognition models in MATLAB for color space dissection of biological images

PUBLICATIONS

Article

'Microbial Coexistence Through Chemical-Mediated Interactions'
Author(s)
Lori Niehaus, Ian Boland, Minghao Liu, Kevin Chen, David Fu, Catherine Henckel, Kaitlin Chaung, Suyen Espinoza Miranda, Samantha Dyckman, Matthew Crum, Sandra Dedrick, Wenying Shou & Babak Momeni
2019 May 3
Nature Communications

EDUCATION

Data Science
Metis

06/2020 - 09/2020

B.S. Biology
Boston College

09/2012 - 12/2016

SKILLS

NLP   Data Visualization   Machine Learning   Google Cloud   Genomics   Single Cell Sequencing   Web Scraping   Python   SQL   pandas