Asiiah Song julinas@ucsc.edu github@julinas

I'm interested in computational creativity and intelligent agents.

Education

University of California, Santa Cruz

PhD, Computational Media

University of British Columbia

MSc, Computer Science

University of California, Santa Cruz

BA, Computer Science, Linguistics

Santa Cruz, CA 2018-present

Vancouver, BC, Canada

2018

Santa Cruz, CA

Santa Cruz, CA

2015

Employment

University of California, Santa Cruz

Graduate Student Researcher

July 2018–present

Graduate Teaching Assistant

July 2018-present

Science Internship Program Mentor

June 2019-August 2019

University of British Columbia

Graduate Teaching Assistant

Vancouver, BC, Canada Sept 2016 - May 2018

Graduate reaching Assis

Houston, TX; remote

Software Engineer

TRACLabs

July 2015-July 2018

Maintenance and development of a web app in JavaScript and a desktop application in Java, both part of a human-assisted automation toolkit (PRIDE) used in industrial automation and various scientific research projects.

Projects

Road network generator

Town-Sim simulates the growth of an urban settlement from a seed of initial settlers. The traffic pattern of the simulated agents moving across the map gathering resources motivate the construction of roads in the simulation. Paper published at the PCG (Procedural Content Genreation) Workshop at FDG (Foundation of Digital Games) 2019.

Recipe generator

3T uses SpaCy to process the Recipe1M+ dataset, and keras to evaluate the fitness on an evolutionary algorithm. 3T represents recipes as trees and emphasizes heat as an atomic element. 3T aims to automatically generate novel (differentiated from training set), full (with ingredients and instructions) recipes.

Card deck generator

Generative Tarot is a concept piece that scrapes the internet for keywords that represent themes of what people are thinking. A small knowledge graph is generated from those keywords and is then projected into

the resulting generated Tarot deck. Workshop paper accepted (2019).

Skills

- o **Programming Languages:** Python, JavaScript, C#, C++, Java
- o Tools: Node.js, SpaCy, keras, Unity3D Game Engine
- Other: Computational Creativity, Procedural Content Generation, Machine Learning, Evolutionary Algorithms