Charles Threlkeld

Résumé

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Education

2018-Present	**PhD Track**	
	Computer Science, Cognitive Science	
	Tufts University	
2011–2012	**Non-degree seeking**	
	Life Sciences	
	Roosevelt University	
2007–2010	**B.A., B.S**	
	Philosophy, Economics, Mathematics	
	Indiana University	
2005–2007	**No degree awarded**	
	Software Engineering	
	Rose-Hulman Institute of Technology	

Projects

- **Grammar of Conversation**: a computational model to explore the heuristics people use to interpret meaning at the interface of syntax and semantics.

- **Another Language ANalyzer (ALAN)**: Multi-media academic application for Jeffersonian transcription to create rich linguistic annoations.

- **Options Market Analysis**: Pulls market settlement data from the Chicago Mercantile exchange. Tidies the data into useable, machine-parseable formats. Calculates derivative value with respect to underlying markets and analyzes the deviations from normal market conditions.

- *John Company*: Model the board game *John Company* (*Sierra Madre Games* 2017) in order to help the designer and developer more fully understand how changes to the random event probabilities affect the game state throughout the game play.

Computer Skills

Basic Knowledge	HTML, CSS, Javascript
Intermediate Knowledge	Linux, Microsoft Windows, Ruby, ML, Clojure, git, SQL, LaTeX
Advanced Knowledge	Python, Data Science, R, Racket

Work Experience

June 2018 - Present

Research Assistant
Tufts University

- **Human Interaction Lab, Present**: See the Conversation Grammar and ALAN projects above.

- **Human Robot Interaction Lab, 2018-2019**: Designed and implemented a robotic dialogue system that merged representation of spoken action with physical action, allowing the robot to reflect on its affordances in the world in a unified way.

Jan 2018 - May 2020

Teaching Assistant
Tufts University

- **Computational Models in Cognitive Science, Fall 2020**: Co-teacher with JP de Ruiter

- **Discrete Mathematics, Spring 2018**: with Professor Laney Strange.

- **Computation Theory, Spring 2020**: with Professor Alexa Sharp

Oct 2010 - Apr 2017

Risk Analyst
Rosenthal Collins Group, LLC

- **Data Scraping**: Located, downloaded, cleaned, and processed raw data into useable formats for broker, client, and personal use.

- **Exploratory Data Analysis**: Applied statistical techniques to datasets to find correlations or anomalies.

- **Analysis Reporting**: Compiled findings of data analysis into essays, charts, and graphs in order to disseminate the findings to coworkers and clients in an easily interpretable way.