

CHESTER HOLTZ

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EDUCATION

University of Rochester, Rochester, NY

- Honors B.S. in Computer Science (Artificial Intelligence Track) with Minor in Mathematics

June, 2017

SKILLS

Languages & Frameworks Tools

Java, C/C++, Lisp, Python(Numpy, scikitlearn, Flask), JavaScript(React), SQL
Git, SVN, Vim, Bash, Eclipse, Excel, LaTeX, Mathematica, Amazon MTurk, Moses

RESEARCH AND WORK EXPERIENCE

Research Experience

University of Rochester

- Visual Intelligence & Social Media Analytics (VISTA) Lab: Working as a Research Assistant supporting Professor Jiebo Luo's research group in projects involving computer vision, big data analysis, data mining, and machine learning. Past work involved supporting the Simon School of Business and the Department of Clinical and Social Sciences in Psychology. Current work involves studying how Autism Spectrum Disorder can be detected based on text-based communication between doctors and patients.
- Social Networks, AI, and Public Health (SNAP) Lab: Working as a Research Assistant supporting Professor Henry Kautz's research group in projects involving computer vision, big data analysis, data mining, and machine learning. Current work involves studying the way language is used in ways other than simply communicating information, such as humor and persuasion in the context of politically biased news sources.
- Rochester NLP Group: Working as a Research Assistant creating structured Human Intelligence Tasks (HITS) for projects involving machine learning and natural language understanding. Current work involves studying how deep learning techniques can be leveraged for the story understanding problem - specifically for story ending prediction.
- Simon School of Business: Supported Professor Sudarshan and his students' research in projects involving the application of various machine learning and NLP techniques to issues in business and political science.

TA & Tutor Experience

University of Rochester

- CSC240 Data Mining (TA)
- CSC242 Artificial Intelligence (workshop leader & TA)
- CSC172 Data Structures and Algorithms (workshop leader & TA)
- CSC171 Introduction to Computer Science (workshop leader & TA)
- CSC161 The Art of Programming (TA)
- CSUG Tutor for MTH201 Introduction to Probability and MTH150 Discrete Mathematics

JPM Chase Summer, 2016

New York, NY

- Risk & Quantitative Technologies Intern: Designed and built framework to do analysis on business processes. Implemented approximate graph-similarity metric to compare process models. Implemented system to do ETL and visualize structured and semi-structured data. Transformations and graph algorithms were written in Java. Used the QlikView Ajax API for the browser-based dashboard.

SELECT PROJECTS (NON-COURSEWORK)

Lisp GC

- Performed analysis and wrote paper on three classic garbage collection algorithms. Implemented parser, evaluator, REPL etc. and 3 garbage collectors: Cheney's algorithm, Mark-Sweep with Tri-color marking, and Knuth's classical Lisp 2 algorithm in C++.

Philosophy Trump

- Generated tweets. Implemented and applied the MCMC algorithm on data collected from Trump's Twitter and Reddit's /r/philosophy subreddit. Current work involves training a query-response SMT model on a corpus composed of 5m tweets and reddit comments.

Reddit News

- Post accumulator and viewer extension for Google Chrome. Built with JavaScript. Utilized React.js., AJAX, and local storage to update and cache post listings and save user preferences.

SELECT ACADEMIC EXPERIENCES

Relevant Coursework

- Discrete Mathematics (MTH 150), Honors Calculus and Linear Algebra (CSC 171-174), Introduction to Probability (MTH 201), Functions of a Single Variable (MTH 165)
- Honors Research Seminar (CSC200H), Autonomous Mobile Robots (CSC236), Data Mining (CSC240), Artificial Intelligence (CSC242), Machine Learning (CSC446), Theory of Computation (CSC280), Design and Analysis of Algorithms (CSC282), Advanced Machine Learning and Optimization (CSC576)

Select Papers

- A Machine Learning-based Approach to Autism Spectrum Disorder Detection from Semi-Structured and... (in submission)
- A Refutation of the Clique-Based $P=NP$ Proofs of LaPlante and Tamta-Pande-Dhami (Arxiv: 1504.06890)
- Comparative Analysis of Classic Garbage-Collection Algorithms for a Lisp-like Language (Arxiv: 1505.00017)

HONORS

Dean's Scholarship

University of Rochester

- Awarded Deans Scholarship for past leadership and academic achievements at U of R

DandyHacks 2016

University of Rochester

- Ranked first in data science and machine learning category at U Rochester's DandyHacks hackathon for Philosoph Trump Twitter bot.