

# CHESTER HOLTZ

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## EDUCATION

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### University of Rochester, Rochester, NY

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

*June, 2017*

## SKILLS

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### Languages & Frameworks Tools

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

## RESEARCH AND WORK EXPERIENCE

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### 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.
- 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 & Statistical Data Analysis (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)

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### 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++.

### Philosoph 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 AJAX and local storage to update and cache post listings and save user preferences.

## SELECT ACADEMIC EXPERIENCES

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### Relevant Coursework

- Honors Research Seminar (CSC200H), Autonomous Mobile Robots (CSC232) Data Mining & Analysis (CSC240), Artificial Intelligence (CSC242), Machine Learning (CSC446), Theory of Computation (CSC280), Design and Analysis of Algorithms (CSC282)

### 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

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### 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 PhilosoTrump Twitter bot.