Jonathan C. Stroud

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Education _____

University of Michigan

Ann Arbor, MI

Ph.D. IN COMPUTER SCIENCE & ENGINEERING

Sep. 2015 - May 2020 (Expected)

- Advisor: Jia Deng
- GPA: 3.91/4.00

University of California, Irvine

Irvine, CA

Sep. 2011 - June 2015

B.S. IN COMPUTER SCIENCE

• Summa Cum Laude. GPA: 3.99/4.00

- Honors in Information and Computer Science
- Minors in Mathematics, Statistics, and Linguistics

Coursework _

Graduate: Advanced Artificial Intelligence • Advanced Topics in Computer Vision • Machine

Learning • Belief Networks • Algorithms • Microarchitecture • Independent Research

Undergraduate: Machine Learning and Data Mining • Artificial Intelligence • Computer Vision •

Data Management • Data Analysis • Operating Systems • Software Engineering

Awards & Honors —

- 2016 Honorable Mention, NSF Graduate Research Fellowship Program
- 2016 Oscar Miller Fellowship

Funded first year of graduate study at University of Michigan

2015 Outstanding Contribution to Research Award

Awarded to two graduating seniors in the School of Computer Science

2015 Deans List, University of California, Irvine

12 quarters

2014 Rose Hills Undergraduate Science and Engineeering Scholarship

State-wide merit-based scholarship, \$9000 award

Julian Feldman Scholarship in Information and Computer Science

Departmental merit-based scholarship, \$1200 award

Nominee, Dan and Jean Aldrich Memorial Scholarship

Nominated as representative of the School of Computer Science

2014 Summer Undergraduate Research Program Fellowship

Funded independent summer research at UC Irvine

2014 Phi Beta Kappa

National honor society, inducted as a junior

Professional Experience _____

Univerity of Michigan

Ann Arbor, MI

GRADUATE STUDENT RESEARCH ASSISTANT Apr. 2016 – Present

- Department of Computer Science & Engineering
- Focus: Action localization and understanding, Computer Vision, Artificial Intelligence
- Advisor: Jia Deng

Michigan Data Science Team

CO-FOUNDER AND ORGANIZATIONAL CHAIR

Ann Arbor, MI Sep 2015 – Present

- Promoted data science interest and education on campus
- Assisted recovery from the Flint Water Crisis with data-driven risk assessments
- Recruited and mentored over 50 active members

University of California, Irvine

Irvine, CA

RESEARCH ASSISTANT

Sep. 2013 - Aug. 2015

- Department of Computer Science
- Focus: Remote sensing with machine learning, Graphical Models, Probabilistic Inference
- Advisor: Alexander Ihler

Interdisciplinary Computatational and Applied Mathematics Program

Irvine, CA

SUMMER RESEARCH FELLOW

Summer 2012

- Implemented data-driven risk assessments for hospital patients
- Scored top 7% worldwide in Heritage Health Prize Kaggle competition
- Advisors: Max Welling and Alexander Ihler

Publications _____

The Michigan Data Science Team: A Student Organization for Machine Learning Challenges JONATHAN STROUD, ALEX CHOJNACKI, JACOB ABERNETHY

Neural Information Processing Systems (NIPS) Workshop on Challenges in Machine Learning *December, 2016. Barcelona, Spain.*

Flint Water Crisis: Data-Driven Risk Assessment Via Residential Water Testing

Jacob Abernethy, Cyrus Anderson, Chengyu Dai, Arya Farahi, Linh Nguyen, Adam Rauh, Eric Schwartz, Wenbo Shen, Guangsha Shi, **Jonathan Stroud**, Xinyu Tan, Jared Webb, Sheng Yang Bloomberg Data For Good Exchange

September, 2016. New York City, New York.

Data Science in Service of Performing Arts: Applying Machine Learning to Predicting Audience Preferences

Jacob Abernethy, Cyrus Anderson, Alex Chojnacki, Chengyu Dai, John Dryden, Eric Schwartz, Wenbo Shen, **Jonathan Stroud**, Laura Wendlandt, Sheng Yang, Daniel Zhang Bloomberg Data For Good Exchange

September, 2016. New York City, New York, USA.

Presentations _____

ORAL PRESENTATION

2016 NIPS Worksop on Challenges in Machine Learning

Barcelona, Spain

Dec. 2016

"The Michigan Data Science Team: A Student Organization for Machine Learning Challenges"

Michigan Institute for Data Science Annual Symposium

Ann Arbor, MI

BEST STUDENT POSTER AWARD

Nov. 2016

"Data Driven Risk Assessments for the Flint Water Crisis"

Michigan Institute for Data Science Annual Symposium

Ann Arbor, MI

POSTER PRESENTATION

Nov. 2016

"The Michigan Data Science Team: A Student Organization for Machine Learning Challenges"

Michigan Institute for Data Science Annual Symposium

Ann Arbor, MI

POSTER PRESENTATION

Nov. 2016

[&]quot;Inferring Alcohol Involvement in Fatal Car Accidents with Ensembled Classifiers"

#Micities Symposium	Ann Arbor, MI
ORAL PRESENTATION	Oct. 2016
"Data Driven Risk Assessments for the Flint Water Crisis"	Now York NIV
Bloomberg Data For Good Exchange ORAL & POSTER PRESENTATION	New York, NY
"Flint Water Crisis: Data-Driven Risk Assessment Via Residential Water Testing"	Sep. 2016
Bloomberg Data For Good Exchange	New York, NY
ORAL PRESENTATION "Data Science in Service of Performing Arts: Applying Machine Learning to Predicting A	Sep. 2016
"Data Science in Service of Performing Arts: Applying Machine Learning to Predicting Audience Preferences"	
Meeting the Challenges of Safe Transportation in an Aging Society	Ann Arbor, MI
BEST STUDENT POSTER	Sep. 2016
"Inferring Alcohol Involvement in Fatal Car Accidents with Ensembled Classifiers"	
Student Symposium for Interdisciplinary Statistical Sciences	Ann Arbor, MI
POSTER PRESENTATION	May 2016
"The FARS Challenge: Inferring Alcohol Involvement in Fatal Car Accidents with Ensembled Classifiers"	
UC Irvine Undergraduate Research Symposium	Irvine, CA
ORAL PRESENTATION	May 2015
"Precipitation Detection with Convolutional Neural Networks"	- -
UC Irvine Undergraduate Research Symposium	Irvine, CA
Oral Presentation	May 2014
"Pixel-Based Gradient Boosting for Precipitation Estimation"	
UC Irvine Undergraduate Research Symposium	Irvine, CA
ORAL PRESENTATION	May 2013
"Ensemble Learning and the Heritage Health Prize"	
Teaching Experience	
University of California, Irvine	
Volunteer Teaching Assistant – Machine Learning and Data Mining – CS178	Winter 2015
Instructor: Alexander Ihler	
University of California, Irvine	
TEACHING ASSISTANT – INTERDISCIPLINARY COMPUTATIONAL AND APPLIED	C
Mathematics Program	Summer 2014
Instructor: Alexander Ihler	
Computer Skills	
languages: Python CoC++ Matlah SOL Java Bash Jua	

Languages: Python • C • C++ • Matlab • SQL • Java • Bash • Lua

Platforms & Software: macOS • Windows • Linux • Kaggle • Tensorflow • Torch • Git