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: 3.98/4.00

University of Michigan

Ann Arbor, MI

M.S. IN COMPUTER SCIENCE & ENGINEERING

Sep. 2015 - May 2017

• GPA: 3.98/4.00

University of California, Irvine

• Summa Cum Laude. GPA: 3.99/4.00

Irvine, CA

B.S. IN COMPUTER SCIENCE

Sep. 2011 - June 2015

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

Publications ——

Temporal Action Localization via Structured Maximal Sums

ZEHUAN YUAN, JONATHAN STROUD, TONG LU, JIA DENG

IEEE Conference on Computer Vision and Pattern Recognition (CVPR) July, 2017. Honolulu, Hawaii.

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

2016 NIPS Worksop on Challenges in Machine Learning

Barcelona, Spain

ORAL PRESENTATION

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 POSTER PRESENTATION "The Michigan Data Science Team: A Student Organization for Machine Learning Co	Ann Arbor, MI Nov. 2016 Challenges"
Michigan Institute for Data Science Annual Symposium POSTER PRESENTATION "Inferring Alcohol Involvement in Fatal Car Accidents with Ensembled Classifiers"	Ann Arbor, MI Nov. 2016
#Micities Symposium ORAL PRESENTATION "Data Driven Risk Assessments for the Flint Water Crisis"	Ann Arbor, MI Oct. 2016
Bloomberg Data For Good Exchange ORAL & POSTER PRESENTATION "Flint Water Crisis: Data-Driven Risk Assessment Via Residential Water Testing"	New York, NY Sep. 2016
Bloomberg Data For Good Exchange ORAL PRESENTATION	New York, NY Sep. 2016
"Data Science in Service of Performing Arts: Applying Machine Learning to Predict Preferences" Meeting the Challenges of Safe Transportation in an Aging Socie	
BEST STUDENT POSTER "Inferring Alcohol Involvement in Fatal Car Accidents with Ensembled Classifiers" Student Symposium for Interdisciplinary Statistical Sciences	Sep. 2016 Ann Arbor, MI
POSTER PRESENTATION "The FARS Challenge: Inferring Alcohol Involvement in Fatal Car Accidents with En Classifiers"	May 2016
UC Irvine Undergraduate Research Symposium ORAL PRESENTATION	Irvine, CA May 2015
"Precipitation Detection with Convolutional Neural Networks" UC Irvine Undergraduate Research Symposium ORAL PRESENTATION	Irvine, CA May 2014
"Pixel-Based Gradient Boosting for Precipitation Estimation" UC Irvine Undergraduate Research Symposium ORAL PRESENTATION	Irvine, CA May 2013
"Ensemble Learning and the Heritage Health Prize" Professional Experience	
Univerity of Michigan GRADUATE STUDENT RESEARCH ASSISTANT	Ann Arbor, MI Apr. 2016 – Present

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

Michigan Data Science Team

Ann Arbor, MI

CO-FOUNDER AND ORGANIZATIONAL CHAIR

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 RESEARCH ASSISTANT

Irvine, CA

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

Awards & Honors _____ Honorable Mention, NSF Graduate Research Fellowship Program 2016 2016 Oscar Miller Fellowship Funded first year of graduate study at University of Michigan **Outstanding Contribution to Research Award** 2015 Awarded to two graduating seniors in the School of Computer Science Deans List, University of California, Irvine 2015 12 quarters Rose Hills Undergraduate Science and Engineeering Scholarship 2014 State-wide merit-based scholarship, \$9000 award 2014 Julian Feldman Scholarship in Information and Computer Science Departmental merit-based scholarship, \$1200 award Nominee, Dan and Jean Aldrich Memorial Scholarship 2014 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 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 Summer 2014 MATHEMATICS PROGRAM Instructor: Alexander Ihler 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

Computer Skills _____

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

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