

GEORGE STOICA

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EDUCATION

Georgia Institute of Technology

Doctor of Philosophy in Machine Learning

Advised by Professor Judy Hoffman | GPA: 3.92

Aug 2021 - May 2026 (Expected)

Carnegie Mellon University

Bachelor of Science in Statistics and Machine Learning

QPA: 3.68 (Final 2 Years: 3.93)

University Honors | School of Computer Science College Honors | Dean's List with High Honors | Dean's List

Aug 2015 - May 2019

LONG PAPERS

[Ziplt!: Merging Models from Different Tasks without Training](#)

George Stoica*, Daniel Bolya*, Jakob Bjorner, Pratik Ramesh, Taylor Hearn, Judy Hoffman

ICLR 2024

[Re-TACRED: Addressing Shortcomings of the TACRED Dataset](#)

George Stoica, Emmanouil Antonios Platanios, Barnabás Póczos

AAAI 2021

[Improving Relation Extraction by Leveraging Knowledge Graph Link Prediction](#)

George Stoica, Emmanouil Antonios Platanios, Barnabás Póczos

arXiv 2020

[Contextual Parameter Generation for Knowledge Graph Link Prediction](#)

George Stoica*, Otilia Stretcu*, Emmanouil Antonios Platanios*, Tom Mitchell, Barnabás Póczos

AAAI 2020

SHORT PAPERS

[Ziplt!: Multitask Model Merging without Training](#)

George Stoica*, Daniel Bolya*, Jakob Bjorner, Pratik Ramesh, Taylor Hearn, Judy Hoffman

NeurIPS UniReps 2023 (Oral)

[Bi-Directional Self-Attention for Vision Transformers](#)

George Stoica, Taylor Hearn, Bhavika Devnani, Judy Hoffman

NeurIPS VTTA 2022 (Best Paper Award)

[Re-TACRED: A New Relation Extraction Dataset](#)

George Stoica, Emmanouil Antonios Platanios, Barnabás Póczos

NeurIPS KR2ML 2020

[Knowledge Graph Enhanced Relation Extraction](#)

George Stoica, Emmanouil Antonios Platanios, Barnabás Póczos

NeurIPS KR2ML 2020

[Contextual Parameter Generation for Knowledge Graph Link Prediction](#)

George Stoica*, Otilia Stretcu*, Emmanouil Antonios Platanios*, Tom Mitchell, Barnabás Póczos

NeurIPS GRL 2019

FELLOWSHIPS

National Science Foundation

Graduate Research Fellowship

Aug 2023 - Present

INVITED TALKS

Bio-NLP Lab Seminar, University of Massachusetts Amherst

2022

Improving Relation Extraction by Leveraging Knowledge Graph Link Prediction

REVIEWS

NIVT-ICCV

2023

ACL-IJCNLP

2021

RESEARCH EXPERIENCE

NSF Graduate Research Fellow, Georgia Institute of Technology, Atlanta, GA

Aug 2023 - Present

Researching how to cheaply and effectively integrate information captured by very large models trained on diverse tasks together into one model capable of solving new problems. Work lies at the intersection of multi-task/modal reasoning and model merging. Advised by Professor Judy Hoffman.

Graduate Research Assistant, Georgia Institute of Technology, Atlanta, GA

Aug 2021 - Aug 2023

Explored methods for fusing models for better performances on downstream tasks. Designed modules at the intersection of convolutional filters and self-attention to improve vision models across a variety of tasks. Explored compositional few-shot learning by composing between automatically extracted specific and generic features. Advised by Professor Judy Hoffman.

Research Assistant, CMU Machine Learning Department, Pittsburgh, PA

Aug 2019 - Jan 2021

Built end-to-end video anomaly detection and natural language explanation models. Proposed a new relation extraction dataset for future benchmarking. Enhanced relation extraction model performance through cyclical ties to link prediction. Advised by Professor Barnabás Póczos.

Honors Thesis, CMU School of Computer Science, Pittsburgh, PA

Mar 2018 - May 2019

Proposed a relation dependent approach to knowledge graph link prediction. Approach improved state-of-the-art by up to 5.1%, with training time gains of up to 28x. Advised by Professors Barnabás Póczos and Tom Mitchell, and collaborated with Dr. Anthony Platanios and Dr. Otilia Stretcu.

WORK EXPERIENCE

Machine Learning Researcher, Inokyo, San Francisco, CA

May 2019 - Aug 2019

Developed and demonstrated Inokyo's first end-to-end solution to item detection, tracking, and customer association for autonomous checkout in stores. Contributions under process of provisional patents.

Data Science Intern, Palo Alto Networks (PAN), Santa Clara, CA

May 2018 - Aug 2018

Applied several classification and statistical methodologies to improve PAN's sales representative churn prediction model. Implemented sampling extensions to several frequently used classifiers in industry to increase model performance on PAN's heavily skewed class data distributions.

Engineering Intern, Conviva, Foster City, CA

May 2017 - Jul 2017

Utilized statistical methodologies and Apache Spark to analyze Conviva's large scale video streaming datasets (10s of billions of views), and designed several production metrics to improve customer insights on products.

Data Science Intern, Upwork, Mountain View, CA

May 2016 - Jul 2016

Designed a freelancer hire prediction model using Active Learning on Upwork's large freelancer marketplace datasets. Mitigated learning on very skewed data.

TEACHING EXPERIENCE

Graduate Teaching Assistant, Introduction to Computer Vision, Atlanta, GA

Jan 2023 - May 2023

Prepared homework and exam problems. The course is an introduction to computer vision and is designed for undergraduate students. ~180 total students.

Teaching Assistant, Introduction to Machine Learning (PhD), Pittsburgh, PA

Jan 2018 - May 2018

Prepared materials and assisted teaching. The course is a general introduction to machine learning methodologies and is designed for graduate students. ~ 200 total students.

ACTIVITIES

President & Co-Founder, CMU Data Science Club, Pittsburgh, PA

Nov 2016 - Nov 2017

Organized corporate talks, workshops and datathons for over 200 club members. Represented club and presided over all club meetings and university functions.

SKILLS

Python | Tensorflow | Pytorch | Apache Spark | Scikit-Learn | Numpy | Pandas | R | Scala | C | Github

FOREIGN LANGUAGES

Romanian (fluent) | French (beginner)