

GEORGE STOICA

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🐙 [Github](#) | [LinkedIn](#) | [Google Scholar](#)

RESEARCH INTERESTS

I am interested in understanding how models synthesize information. My recent work centers around multitask model-merging, and efficiently adapting existing models to solve new problems *without finetuning*. I am currently exploring model merging and mechanistic interpretability in foundation models. My past experience lies in architecture development, relation extraction and knowledge graphs.

Major Interests: Representation Understanding; Multitask Learning; Model Merging; Efficient Learning; Parameter Efficiency; Mixture of Experts

Experience Areas: LLMs; Computer Vision, Natural Language Processing, Efficiency

Frameworks: Pytorch; Tensorflow; Numpy; Scikit-Learn; Github

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

CONFERENCE PUBLICATIONS & PREPRINTS

[Model Merging with SVD to Tie the Knots](#)

George Stoica*, Pratik Ramesh*, Boglarka Ecsedi, Leshem Choshen, Judy Hoffman

arXiv 2024 (Under Review)

[ZipIt! 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

WORKSHOP PAPERS

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

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

(Oral) UniReps NeurIPS 2023

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

George Stoica, Taylor Hearn, Bhavika Devnani, Judy Hoffman

(Best Paper Award) VTTA NeurIPS 2022

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

KR2ML NeurIPS 2020

George Stoica, Emmanouil Antonios Platanios, Barnabás Póczos

[Knowledge Graph Enhanced Relation Extraction](#)

KR2ML NeurIPS 2020

George Stoica, Emmanouil Antonios Platanios, Barnabás Póczos

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

GRL NeurIPS 2019

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

INVITED TALKS

Big Bang Reading Group, Google Research

2024

[On Model Merging](#)

Bio-NLP Lab Seminar, University of Massachusetts Amherst

2022

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

FELLOWSHIPS

National Science Foundation

Aug 2023 - Present

Graduate Research Fellowship

ACADEMIC APPOINTMENTS

Visiting PhD Student, University of Washington, Seattle, WA

Sept 2024 - Present

Visiting PhD Student at the University of Washington and merging foundation vision models. Working with Ranjay Krishna and Judy Hoffman.

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

Aug 2023 - Present

Building capable multitask models by fusing the weights of existing task-experts. Advised by Professor Judy Hoffman.

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

Aug 2021 - Aug 2023

Introduced Ziplt!, developed inverse self-attention, explored compositional few-shot learning. Advised by Professor Judy Hoffman.

Research Assistant, CMU Machine Learning Department, Pittsburgh, PA

Aug 2019 - Jan 2021

Created a new standard relation extraction benchmark. Introduced framework to improve relation extraction models by coupling knowledge from link prediction. Built models capable of explaining anomalies in video. Advised by Professor Barnabás Póczos.

INDUSTRY APPOINTMENTS

Student Researcher, Google DeepMind, Mountain View, CA

April 2024 - Aug 2024

Developed a conversational agent with Gemini for solving nuanced client-problems. Improved existing multimodal in-context learning approaches. Product focused.

Machine Learning Researcher, Inokyo, San Francisco, CA

May 2019 - Aug 2019

Developed and demonstrated Inokyo's first end-to-end solution for autonomous checkout in stores.

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

May 2018 - Aug 2018

Improved PAN's ability to predict sales representative churn, using several classification and statistical methodologies on heavily skewed data.

Engineering Intern, Conviva, Foster City, CA

May 2017 - Jul 2017

Designed several production metrics to improve customer insights across products. Worked with 10s billions of data examples.

Data Science Intern, Upwork, Mountain View, CA

May 2016 - Jul 2016

Designed a freelancer hire prediction model with active learning.

CONFERENCE REVIEWERSHIPS

ICLR 2025, CVPR 2024; NIVT-ICCV 2023; ACL-IJCNLP 2021

TEACHING EXPERIENCE

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

Jan 2023 - May 2023

Prepared homework and exam problems. Undergraduate course with ~180 students.

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

Jan 2018 - May 2018

Prepared materials and assisted teaching. PhD-level course with ~200 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.

FOREIGN LANGUAGES

Romanian (fluent) | French (beginner)