

# George Stoica

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## EDUCATION

### Georgia Institute of Technology

*Doctor of Philosophy in Machine Learning*

Advised by Professor Judy Hoffman

Aug 2021 - May 2026 (Expected)

### Carnegie Mellon University

*Bachelor of Science in Statistics and Machine Learning*

QPA: 3.68 (Last 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

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## CONFERENCE PAPERS

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

George Stoica, Emmanouil Antonios Platanios, Barnabás Póczos

AAAI 2021

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

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

AAAI 2020

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## WORKSHOP PAPERS

[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

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## PREPRINTS

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

George Stoica, Emmanouil Antonios Platanios, Barnabás Póczos

arXiv 2020

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## REVIEWS

ACL-IJCNLP

2021

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## RESEARCH EXPERIENCE

Research Assistant, CMU Machine Learning Department, Pittsburgh, PA

Aug 2019 - Jan 2021

Exploring multimodal task compositions via vector-module-networks. Building 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. Method 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 PhD Candidate Otilia Stretcu.

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## 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 new production metrics aimed at improving customer insights on Conviva's 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.

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## TEACHING EXPERIENCE

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

**Jan 2018 - May 2018**

Prepared materials and assisted teaching the graduate course 10701: Introduction to Machine Learning (PhD). The course is a general introduction to machine learning methodologies. ~ 200 total students.

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## 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.

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## SKILLS

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

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## FOREIGN LANGUAGES

Romanian (fluent) | French (beginner) | German (beginner)

