

# Cat Mai

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EDUCATION	<b>Ph.D. Computer Science</b> , New York University (NY, USA) Advisor: Damon McCoy	2022–Present
	<b>B.A. Computer Science</b> , <b>B.A. (Hons) Mathematics</b> , Clark University (MA, USA) Advisor: Michael Satz	2018–2022
RESEARCH EXPERIENCE	<b>Research Associate</b> , Agricultural Impacts Group @ Clark University Mentor: Lyndon Estes <ul style="list-style-type: none"><li>Trained, integrated features, and ran inference for deep learning models on AWS.</li><li>Refined CNN models to classify crop types and regress on field boundaries.</li></ul> <b>Research Assistant</b> , Human–Computer Interaction @ Brown University Mentors: Jeff Huang, Talie Massachi <ul style="list-style-type: none"><li>Worked on <a href="#">Automotion</a>, a usability test of mobile device interaction. I modified, retrained machine learning models like CNN, Random Forest, SVM to predict user’s affect.</li><li>Submitted manuscript to IMWUT ’21. Our paper reveals insights about using human labelers vs. ML models to predict user emotion from mobile gyroscope data.</li></ul> <b>Research Assistant</b> , Clark University	Jan–Aug 2022  May–Sep 2021  Feb 2020–Jun 2021
TEACHING EXPERIENCE	<b>Teaching Assistant</b> , Clark University Lead weekly labs and office hours. Prepare solutions and grade assignments. Computer Science   Data Structures, Discrete Structures, Automata Theory Mathematics   Discrete Mathematics, Honors Calculus I–II, Multivariate Calculus	Aug 2019–May 2022
AWARDS	<b>Future Leader PhD Fellowship</b> , New York University <b>LEEP Research Fellow</b> , Clark University <b>Richard Traina Scholarship</b> , Clark University	2022–2024 2020 2018–2022
TECHNICAL	<b>Languages</b> Python, Java, R, JavaScript, $\text{\LaTeX}$ <b>Skills</b> Data analysis, Statistical inference, Experiment design, Academic publication	
VOLUNTEER AND SERVICES	<b>Math Tutor</b> , Getting Out Staying Out <b>Diversity &amp; Inclusion Committee</b> , American Go Association <b>Math Tutor</b> , Massachusetts Correctional Institution	2023–Present 2020–2023 2018–2020

## CONFERENCE PAPERS

- In submission Anonymous Authors. “Understanding the Perils of YouTube’s Privacy Settings on Ad Safety”. *In submission at ACM - TheWebConf ’24 (WWW)*.
- CSCW ’21 Shuo Niu, **Cat Mai**, Katherine G. McKim, and Scott McCrickard. “#TeamTrees: Investigating How YouTubers Participate in a Social Media Campaign”. *ACM Conference on Computer-supported Cooperative Work 2021*. [\[pdf\]](#).
- CHI ’21 Shuo Niu, Ava Bartolome\*, **Cat Mai\***, and Nguyen Binh Ha\*. “#StayHome #WithMe: How Do YouTubers Help with COVID-19 Loneliness?” *ACM CHI Conference on Human Factors in Computing Systems 2021*. [\[pdf\]](#).

## POSTERS & EXTENDED ABSTRACTS

- Fall Fest ’21 Dinithi Silva-Sassaman, **Cat Mai**, Jing Qian, and Jeff Huang. *Predicting Emotion and Attention from Smartphone Behavioral Data*. [\[pdf\]](#). Fall Fest ’21 Clark University.
- CSCW ’21 Katherine McKim, **Cat Mai**, Danielle Hess, and Shuo Niu. *Investigating Drug Addiction Discourse on YouTube*. [\[pdf\]](#).
- Winter Fest ’21 **Cat Mai**. *How YouTubers Participate in a Social Media Campaign: A Culture-Based Analysis of #TeamTrees*. [\[pdf\]](#). Winter Fest ’21 Clark University.
- Fall Fest ’19 **Cat Mai\***, Tina Chiem\*, and Anisha Hassan\*. *Odd One Out”: Model Based Biology in an ESL Classroom*. [\[pdf\]](#). Fall Fest ’19 Clark University.
- Class report, 2021 *Numerical Analysis: Tension Spline Interpolation*. [\[pdf\]](#).
- Class report, 2020 *Emotional Analysis Via Content Creation on YouTube During COVID-19*. [\[pdf\]](#).

SELECT **Applied** Quantitative Finance, Stochastic Models, Cyber Law, Linear Models/Econometrics  
COURSEWORK **Theory** Numerical Analysis, Quantum Computing, Abstract Algebra, Real Analysis