

Cat Mai

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EDUCATION	Ph.D. Computer Science , New York University (NY, USA) Advisor: Damon McCoy, Center for Cybersecurity Focus: usable privacy, social media auditing, targeted advertising. B.A. Computer Science, B.A. (Hons) Mathematics , Clark University (MA, USA) Advisor: Michael Satz	2022–Present 2018–2022
RESEARCH EXPERIENCE	Research Associate , Agricultural Impacts Group @ Clark University Mentor: Lyndon Estes <ul style="list-style-type: none">Trained, integrated features, and ran inference for deep learning models on AWS.Refined CNN models to classify crop types and regress on field boundaries. Research Assistant , Human–Computer Interaction @ Brown University Mentors: Jeff Huang, Talie Massachi <ul style="list-style-type: none">Worked on Automotion, a usability test of mobile device interaction. I modified, retrained machine learning models like CNN, Random Forest, SVM to predict user’s affect.Submitted manuscript to IMWUT ’21. Our paper reveals insights about using human labelers vs. ML models to predict user emotion from mobile gyroscope data. Research Assistant , Clark University	Jan–Aug 2022 May–Sep 2021 Feb 2020–Jun 2021
TEACHING EXPERIENCE	Graduate Teaching Assistant , New York University Lead weekly labs and office hours for Design & Analysis of Algorithms. Teaching Assistant , 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	Feb 2025–Present Aug 2019–May 2022
AWARDS	Future Leader PhD Fellowship , New York University LEEP Research Fellow , Clark University Richard Traina Scholarship , Clark University	2022–2024 2020 2018–2022
TECHNICAL	Languages Python, Java, SQL, R, JavaScript, L ^A T _E X Tools Docker, Google Cloud Platform, Amazon Web Services Skills Data analysis, Statistical inference, Experiment design, Academic publication	

VOLUNTEER	Math Tutor , Getting Out Staying Out	2023–Present
AND SERVICES	Diversity & Inclusion Committee , American Go Association	2020–2023
	Math Tutor , Massachusetts Correctional Institution	2018–2020

PUBLICATIONS * = equal contribution. Some articles list authors alphabetically.

CONFERENCE PAPERS

- PETS '25 **Cat Mai**, Bruno Coelho, Julia Kieserman, Lexie Matsumoto, Kyle Spinelli, Eric Yang, Athanasios Andreou, Rachel Greenstadt, Tobias Lauinger, and Damon McCoy. “More and Scammier Ads: The Perils of YouTube’s Ad Privacy Settings”. [\[pdf\]](#).
- Remote Sensing Sam Khallaghi, Rahebeh Abedi, Hanan Abou Ali, Hamed Alemohammad, Mary Dziedzorm Asipunu, Ismail Alatis, Nguyen Ha, Boka Luo, **Mai, Cat**, Lei Song, et al. “Generalization Enhancement Strategies to Enable Cross-Year Cropland Mapping with Convolutional Neural Networks Trained Using Historical Samples”. *Remote Sensing*. [\[doi\]](#).
- EGU24 Lyndon Estes, Sam Khallaghi, Rahebe Abedi, Mary Asipunu, Nguyen Ha, Boka Luo, **Mai, Cat**, Amos Wussah, Sitian Xiong, and Yao-Ting Yao. “Simple temporal domain adaptation techniques for mapping the inter-annual dynamics of smallholder-dominated croplands over large extents”. *EGU General Assembly Conference Abstracts*. [\[doi\]](#).
- 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*. [\[doi\]](#) [\[pdf\]](#).
- 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*. [\[doi\]](#) [\[pdf\]](#).

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 {Application, Network, Web} Security, Quantitative Finance, Cyber Law
COURSEWORK	Theory Numerical Analysis, Quantum Computing, Abstract Algebra, Real Analysis