

Cat Mai

Attn: Cat Mai
370 Jay St
Floor 10
Brooklyn, NY 11201

Updated: Oct 9, 2022

✉ cat.mai@nyu.edu
🏠 catxmai.github.io

Education

New York University.

2022-Expected 2027

Ph.D. Computer Science | Advisor: Damon McCoy

Clark University.

2018–2022

B.A. Computer Science

B.A. (Hons) Mathematics | Advisor: Michael Satz

Research Experience

*HCI=Human-Computer Interaction.

Research Assistant, *GIS @ Clark*,

Jan '22–Aug '22

Mentor: Lyndon Estes.

- Trained, integrated features, and ran inference for ML models on AWS.

Visiting Research Assistant, *Brown HCI @ Brown University*,

Summer '21

Mentors: Jeff Huang, Talie Massachi.

- Worked on [Automotion](#). Analyzed user study's data to detect patterns in annotators' prediction. Modified, retrained CNN, Random Forest, SVM to predict user's affect.
- Rewrote a submission to IMWUT. Our paper reveals insights about using annotators vs. ML models to predict emotion from pressure readings and motion capture.

HCI Research Assistant, *Clark University*,

Feb '20–Jun '21

Mentor: Shuo Niu.

- Crawled over 10,000 videos that was used across multiple projects. Set up annotation interface. Co-author and maintainer of the lab's [crawler package](#)
- Analyzed videos for common themes and tested for correlated categories using video statistics
- Our papers identifies patterns in parasocial relationships and civic engagement on YouTube.

Teaching Experience

Teaching Assistant, *Clark University*.

Aug '19–May '22

Lead weekly labs and 1-on-1 tutoring. Prepare solutions and grade homework.

CS 180 Automata Theory

CS 121, 122 Data Structures; Discrete Structures

MATH 114 Discrete Mathematics

MATH 124, 125 Honors Calculus I, II

MATH 131 Multivariate Calculus

Reports & Publications

* = equal contribution

Conference Papers.....

- 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*. (Acceptance rate = 26.3%) [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]. CSCW '21.
- 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 Reports

“Numerical Analysis research project: Tension Spline Interpolation” (Fall 2021). [pdf].

“Emotional Analysis Via Content Creation on YouTube During COVID-19” (Fall 2020). [pdf].

Awards, Honors

2022-2024: Future Leader PhD Fellowship	New York University
2020: LEEP Research Fellow	Clark University
2018-2022: Traina Scholarship	Clark University

Volunteer

Diversity & Inclusion Committee , American Go Association.	2020–Present
o Co-direct and coordinate tournaments with approx. 1000 players	
o Analyze education initiatives, market research for Go/weiqi national outreach.	
Math Tutor , Massachusetts Correctional Institution.	2018–2020
o Tutored weekly as part of prison education Petey Greene program .	

Tech Stack

Main: Java, Python, JavaScript, \LaTeX | **Other:** SQL, C/C++, Kotlin, Bash, R