

MAXIMUS PACE

(203) 451-8151 ♦ map438@cornell.edu

<https://www.maximuspace.com>

EDUCATION

Cornell University

August, 2024 - May, 2026

Master of Science in Computer Science

Cornell University

September, 2020 - May, 2024

Bachelor of Arts in Computer Science, Mathematics. *Summa cum laude*

GPA: 4.10

Course work: Robot Learning, Machine Learning, Artificial Intelligence, Computer Vision, Algorithms, Honors Object Oriented Programming & Data Structures, Functional Programming, Compilers & Formal Languages, Honors Linear Algebra, Abstract Algebra, Probability, Honors Real Analysis, Complex Analysis

PUBLICATIONS

- Prithwish Dan, Kushal Kedia, Angela Chao, Edward Duan, Maximus Adrian Pace, Wei-Chiu Ma, Sanjiban Choudhury. X-Sim: Cross-Embodiment Learning via Real-to-Sim-to-Real. *Under Review for the 9th Annual Conference on Robot Learning (CoRL), 2025.* [Website]
- Kushal Kedia, Prithwish Dan, Angela Chao, **Max Pace**, and Sanjiban Choudhury. One-shot imitation under mismatched execution. *International Conference on Robotics and Automation (ICRA)*, 2025. [Website]
- Huaxiaoyue Wang, Nathaniel Chin, Gonzalo Gonzalez-Pumariiega, Xiangwan Sun, Neha Sunkara, **Maximus Adrian Pace**, Jeannette Bohg, Sanjiban Choudhury. APRICOT: Active Preference Learning and Constraint-Aware Task Planning with LLMs. *8th Annual Conference on Robot Learning (CoRL)*, 2024. [Website]
- Huaxiaoyue Wang, Kushal Kedia, Juntao Ren, Rahma Abdullah, Atiksh Bhardwaj, Angela Chao, Kelly Y Chen, Nathaniel Chin, Prithwish Dan, Xinyi Fan, Gonzalo Gonzalez-Pumariiega, Aditya Kompella, **Maximus Adrian Pace**, Yash Sharma, Xiangwan Sun, Neha Sunkara, Sanjiban Choudhury. MOSAIC: A Modular System for Assistive and Interactive Cooking. *8th Annual Conference on Robot Learning (CoRL)*, 2024. [Website]
- Yash Sharma, Yuki Wang, Kelly Chen, **Maximus Pace**, Sanjiban Choudhury. Video2Demo: Grounding Videos in State-Action Demonstrations. [OpenReview]

RESEARCH EXPERIENCE

PoRTaL Lab, Cornell University Professor Sanjiban Choudhury

March, 2023 - Present

- Learned robot skills from actionless human videos containing infeasible demos to deploy on a 7DoF arm
- Built a Real2Sim pipeline to convert a human video demo into RL objective in simulation for successful Real2Sim2Real approach
- Enabled a mobile manipulator robot to identify and grasp objects using visuomotor behavioral cloning over a multimodal action space

PROFESSIONAL EXPERIENCE

Founder and CTO of Synopsis

August, 2022 - Present

- Developed front-end and back-end for automatically generating story-based data science slide decks to make corporate research communication engaging for 15 users
- Researched business viability and conducted 80 customer discovery interviews to test hypotheses
- Raised \$15,000 in grants and pitched at Autodesk Gallery through eLab business accelerator

Controls Software Engineer on Cornell Mars Rover

November, 2020 - June, 2024

- Trained segmentation model to identify keyboards and key locations to enable autonomous typing
- Overhauled classification model for rock images, improving validation accuracy from 30% to 70%
- Rewrote vision systems for ROS 2, integrating newer frameworks and enhancing cameras for competition
- Operated rover in University Rover Challenge 2023, adapting to controller malfunctions by manipulating drives through ROS command line and resolving camera failures ad hoc, ensuring continued performance

Software Engineer Intern at Guidewire Software

May, 2022 - August, 2022

- Built asset management tool to reveal abandoned curation assets, saving \$1200/month in AWS costs
- Expanded data curation API in Kotlin to expose data relationships, enabling accessibility for 30 developers
- Restructured customer data platform class setup to reduce data redundancy, creating a cleaner interface
- Created SQL query tests for join statements for better reliability in production

Mobile Developer Intern at rapStudy

May, 2021 - September, 2021

- Led development of song player for new React Native app for school-sponsored use by over 5000 students
- Created seamless synchronization system for aligning over 200 songs with their lyrics in real-time

TEACHING EXPERIENCE

Discrete Structures TA

August, 2021 - December, 2021; August, 2022 - May, 2024

- Promoted to Head TA in Spring, 2023 with Lecturer Anke van Zuylen
- Rated average overall score of 4.94/5.0 from 17 students on anonymous feedback survey
- Led discussion sections of 30 students and held office hours assisting 30 students per week on problem sets
- Created homework and exam rubrics and led grading sessions of 14 TAs to grade 430 submissions

Functional Programming and Data Structures Consultant

January, 2022 - May, 2022

- Held office hours assisting 20 students per week with coding assignments and exam preparation
- Graded 10 submissions for each programming assignment for accuracy and code quality

GRANTS AND AWARDS

Bowers Undergraduate Research Experience & Summer Experience Grant

May, 2023

- Granted \$4,599 for conducting computer science research over the summer on imitation learning

Excellence as Course Staff Nomination

May, 2023

- Nominated by faculty for hard work and strong performance as a TA in a Bowers CIS course

Cane Entrepreneurship Scholars

May, 2023

- Awarded \$5,000 for the development and growth of a unique startup

Beck Entrepreneurship Fellowship

December, 2022

- Awarded \$5,000 for strong demonstrated interest and involvement in entrepreneurship, academic excellence, and intention to pursue a startup idea during the summer

TECHNICAL SKILLS

Python (PyTorch, ROS, OpenCV, NumPy, Matplotlib), Java, OCaml, JavaScript

REFERENCES

Sanjiban Choudhury, Ph.D., Assistant Professor at Cornell University

sanjibanc@cornell.edu

Anke van Zuylen, Ph.D., Senior Lecturer at Cornell University

avz2@cornell.edu

Gregory Ray, Ph.D., Entrepreneur in Residence and Visiting Lecturer at Cornell University *gcr45@cornell.edu*

Matt Halstead, Staff Software Engineer at Guidewire Software Inc.

mhalstead@guidewire.com